

# STATE OF UTAH GENERAL OUTLOOK

JANUARY 1, 1991

## SUMMARY

The first three months of the young 1991 water year has not reversed the much below normal precipitation pattern Utah has experienced for the four preceding years. Although basin averages still remain below normal, the resultant fall precipitation is improved over recent years. January 1 snowpack is about two thirds of usual. Reservoir storage is farther below than last year showing the cumulative effects of the recent drought. Forecasts for next spring and summer streamflows are below normal. However, more than half of our snowfall remains to be received after January first.

## SNOWPACK

Utah snowpacks are much better than they were last year at this time, however still remain below normal at 68% of average across the state. Snow water content as of January 1 ranges from seventy six percent of average on the Uintas to 42% on the watersheds of southeastern Utah. The first of April is generally considered the time of maximum snowpack accumulation each year. In order to reach normal snow water content by April 1 the snowpack would have to increase from 18 to 44% more than usual during the next three months. The dry scenario of recent years has not changed sufficiently at this point to project recovery during this snow season.

## PRECIPITATION

The 1990 water year thus far has been characterized by below normal mountain precipitation every month (October through December). October received the least precipitation of the three months with a state wide summary of 60%. Seasonal totals range from 83% of normal in the Sevier and Beaver to 64% of normal for southeastern watersheds.

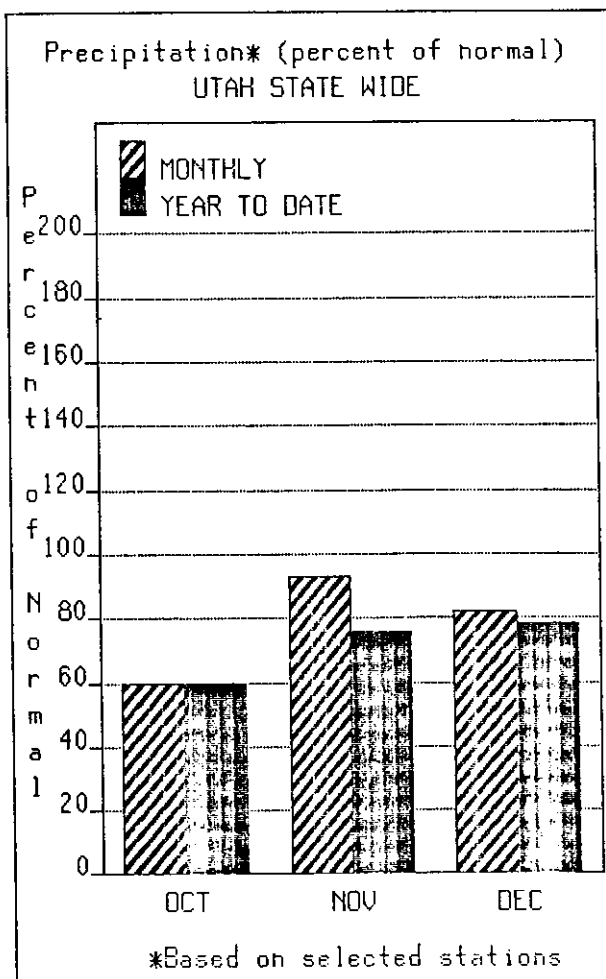
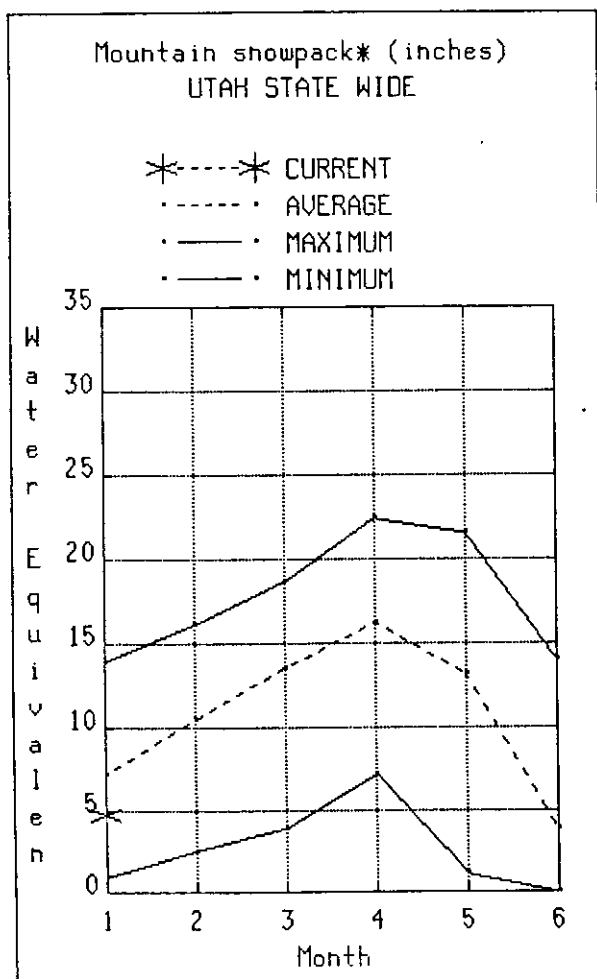
The National Weather Service stations report the lower elevation precipitation around the state as follows: Northern Utah precipitation for the month of December was 55-75 percent of normal with 106% at Provo, BYU. Jensen reported 136% and Heber 88%. Seasonal values (Oct-Dec) are 75-85 percent of normal. Both Vernal Airport and Santaquin were 116%. The precipitation totals are somewhat better in the southern part of the state, ranging from 85-105 percent for December and 80-100 percent for the seasonal precipitation. Seasonal precipitation at Fillmore was 128% and Minersville 147% of normal.

## RESERVOIRS

Twenty-five of the key irrigation reservoirs in the state contain 67% of average water supplies for the end of December. Reserves at the end of December are usually 63% of capacity. This year we have 42% of capacity filled. Last year storage was 53% of capacity by this time. Less than average inflow projections for the coming season have most reservoir operators taking a very conservative approach to releases from the current stored waters.

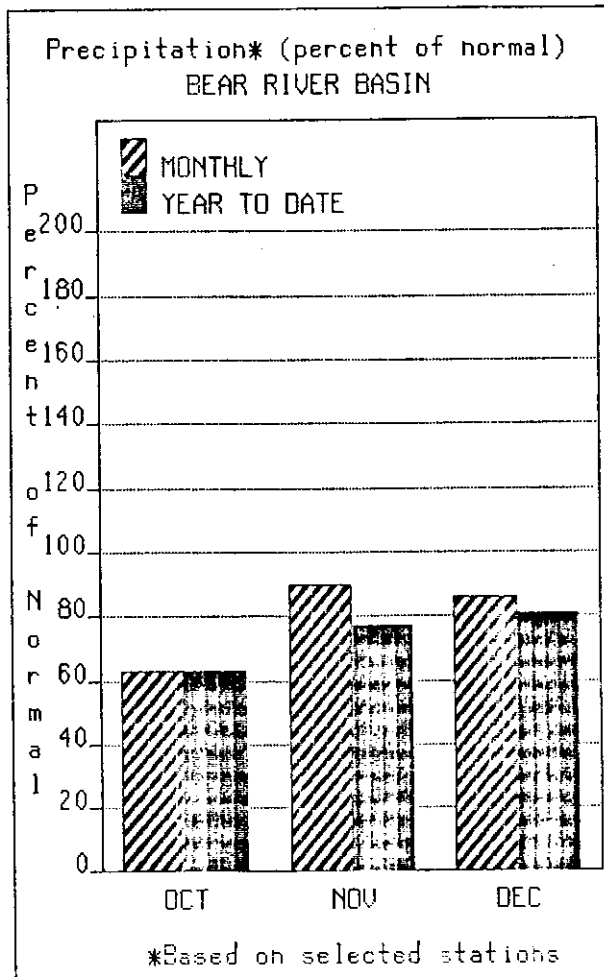
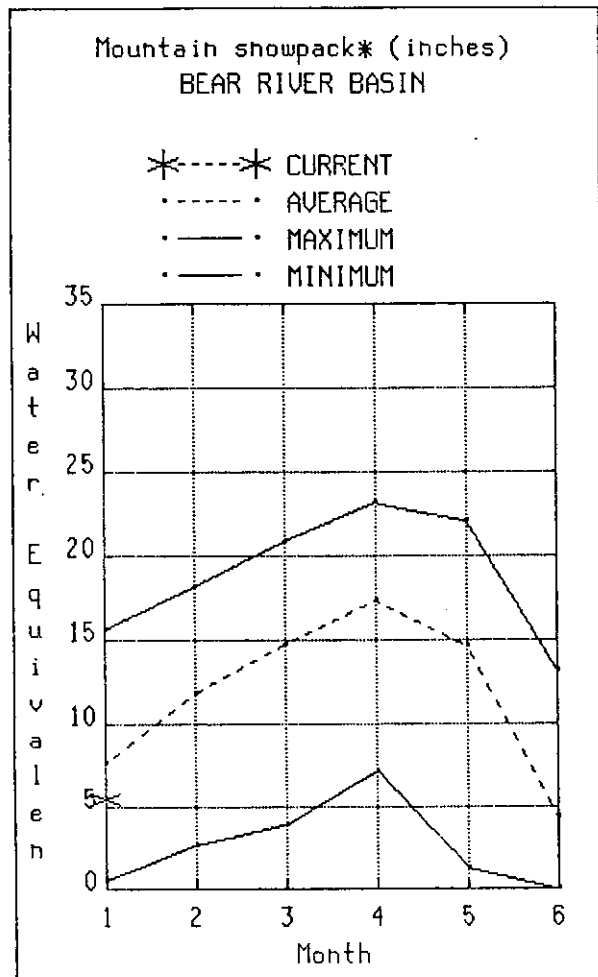
## STREAMFLOW

Projections of spring and summer streamflow for next season range from 32% of average on Seven Mile Creek near Fish Lake in the headwaters of the Fremont River to 96% for the San Juan River near Bluff. Although both of these extremes are in southeastern Utah, the average expected flows are 58% of normal (lowest for the state). All other basins in the state have higher averaged forecasts, generally in the 60's and 70's percent of average with the Uinta range averaging the highest at 70 percent of normal. Normally another 60% of our snow will be received by April 1st. Above normal snow and rains are required during this period to raise the forecasts to higher levels.



# BEAR RIVER BASIN

JANUARY 1, 1991



Water equivalent in the Bear River watershed snowpack is 72 percent of normal (135% of last year). Mountain precipitation has been below average each month so far this water year. Total accumulation for the water year (October 1 through December 31) is 81% of normal. Stored water reserves are only 49% of average in area reservoirs. Streams are forecast to flow at 44 to 77% of average next spring and summer. If below normal precipitation persists, actual streamflow will be even less.

## BEAR RIVER BASIN

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BEAR RIVER nr Ut-Wy Stateline	APR-JUL	43	62	75	65	88	107	116
BEAR near Woodruff (2)	APR-JUL	45	46	90	60	134	199	150
WOODRUFF CREEK near Woodruff	APR-JUL	4.4	8.3	11.0	64	13.7	17.6	17.3
BIG CREEK near Randolph	APR-JUL	1.1	1.6	3.2	60	4.8	7.1	5.3
BEAR near Randolph	APR-JUL	5.0	10.0	55	44	100	166	126
SMITHS FORK near Border, WY	APR-SEP	49	70	85	74	100	121	115
THOMAS FORK near Wy-Id Stateline	APR-SEP	9.0	19.0	25	68	32	41	37
BEAR RIVER near Harer	APR-SEP	30	120	182	59	245	335	310
BEAR RIVER blw Stewart Dam (2)	APR-SEP	35	108	158	53	210	280	298
CUB RIVER near Preston	APR-JUL	15.0	27	36	77	45	58	47
LITTLE BEAR RIVER near Paradise	APR-JUL	9.0	14.0	28	61	42	63	
LOGAN RIVER near Logan	APR-JUL	44	71	89	73	107	134	
BLACKSMITH FORK near Hyrum	APR-JUL	13.0	21	35	62	49	71	57

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
BEAR LAKE	1421.0	479.5	715.4	992.6	BEAR RIVER, UPPER (above	11	117	73
HYRUM	15.3	9.0	10.1	10.0	BEAR RIVER, LOWER (below	12	154	69
PORCUPINE	11.3	3.1	3.2	2.8	LOGAN RIVER	5	140	65
WOODRUFF NARROWS	55.8	4.3	3.5	---	BEAR RIVER DRAINAGE	23	134	71
WOODRUFF CREEK	4.0	3.8	---	---	RAFT RIVER	1	165	83
					BEAR RIVER BASIN	24	135	72

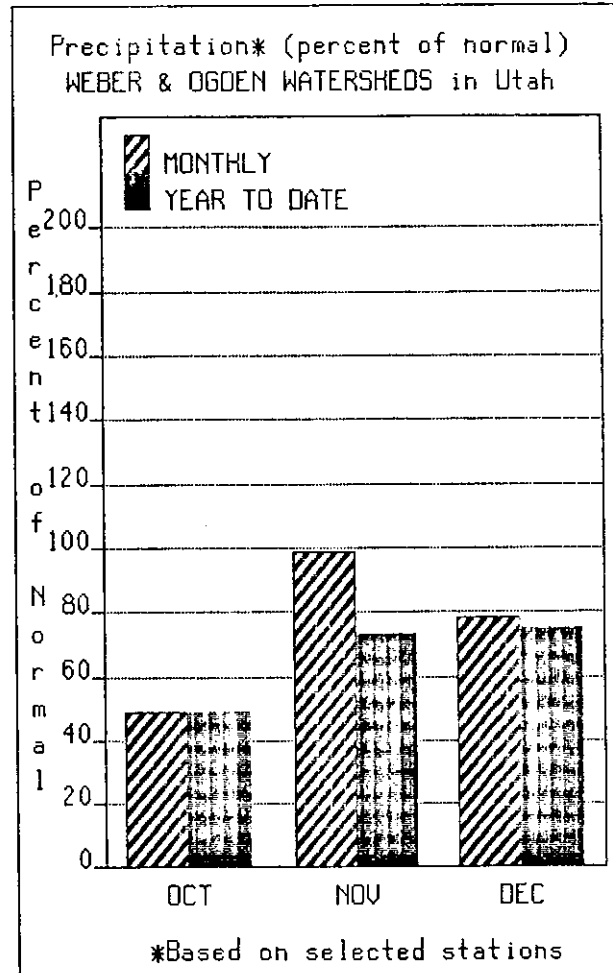
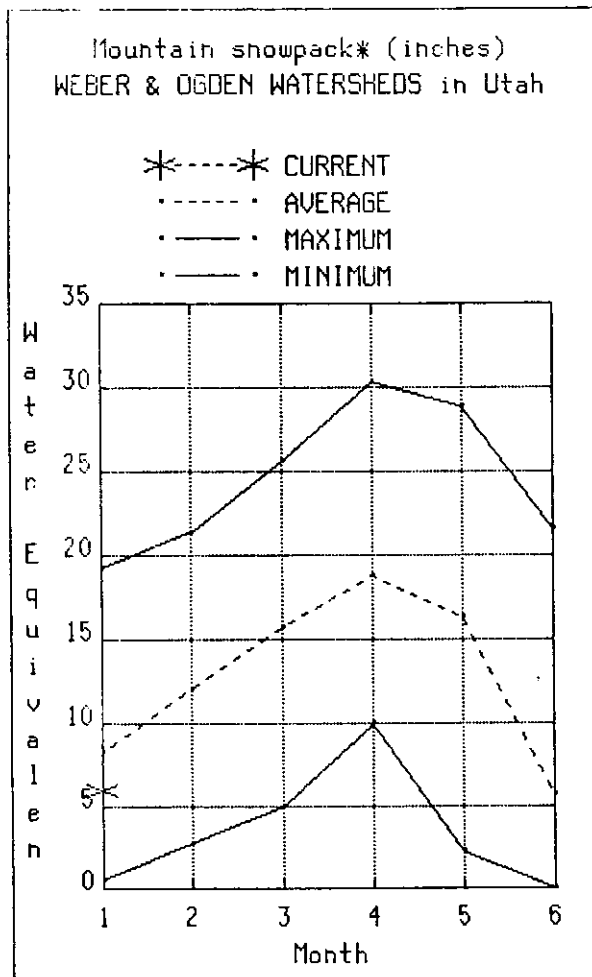
\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.  
 (2) - The value is natural flow - actual flow may be affected by upstream water management.

# WEBER & OGDEN WATERSHEDS in Utah

JANUARY 1, 1991



The Weber River watershed has 73% of normal water content as of January first. This is 139% of that measured one year ago. Storms will have to be 22 percent above normal for the next three months in order to have normal snowpacks on April 1st. Seasonal precipitation (October 1 through December 31) totals 75%, somewhat better than one year ago. Weber Basin reservoirs currently have 39% of their cumulative capacity filled. This amounts to over 30,000 acre-feet less than that during the worst recent dry period in 1977 for January 1st. Forecasts of spring and summer streamflow average about 67% and range from 62 to 76% of normal. If drier than normal conditions persist forecasts will be lower next month.

# WEBER & OGDEN WATERSHEDS in Utah

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		<----- DRIER ----->		CHANCE OF EXCEEDING *		>----- WETTER ----->		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SMITH AND MOREHOUSE CREEK near Oakle	APR-JUN	9.0	17.0	23	76	29	37	30
WEBER RIVER near Oakley	APR-JUL	54	75	90	72	105	126	125
ROCKPORT RESERVOIR inflow	APR-JUL	40	70	90	66	110	140	136
CHALK CREEK at Coalville, Ut	APR-JUL	12.0	18.0	29	64	40	56	45
WEBER RIVER near Coalville, Ut	APR-JUL	40	71	92	65	113	145	142
ECHO RESERVOIR Inflow	APR-JUL	33	78	108	62	138	183	174
LOST CREEK Res Inflow	APR-JUL	2.5	6.6	12.8	70	19.0	28	18.3
EAST CANYON CREEK near Morgan	APR-JUL	7.0	16.0	21	68	27	35	31
HARDSCRABBLE CREEK near Porterville	APR-JUN	2.8	4.7	12.0	65	19.3	30	18.4
WEBER RIVER at Gateway	APR-JUL	166	205	235	63	265	305	277
S FORK OGDEN RIVER nr Huntsville	APR-JUL	20	35	45	68	55	70	
PINEVIEW RESERVOIR Inflow	APR-JUL	42	77	100	63	124	158	
WHEELER CREEK near Huntsville	APR-JUL	1.4	3.1	4.2	65	5.3	7.0	6.5
FARMINGTON CREEK near Farmington	APR-JUL	1.6	2.4	5.7	70	9.0	13.8	8.2

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
CAUSEY	7.1	1.8	1.6	2.1	OGDEN RIVER	4	168 76
EAST CANYON	48.1	25.1	32.2	33.3	WEBER RIVER	14	130 73
ECHO	73.9	30.0	29.8	41.4	WEBER & OGDEN WATERSHEDS	18	139 73
LOST CREEK	22.5	10.0	14.4	12.7			
PINEVIEW	110.1	31.2	59.7	50.0			
ROCKPORT	60.9	20.6	39.5	34.1			
WILLARD BAY	185.0	81.0	123.4	104.9			

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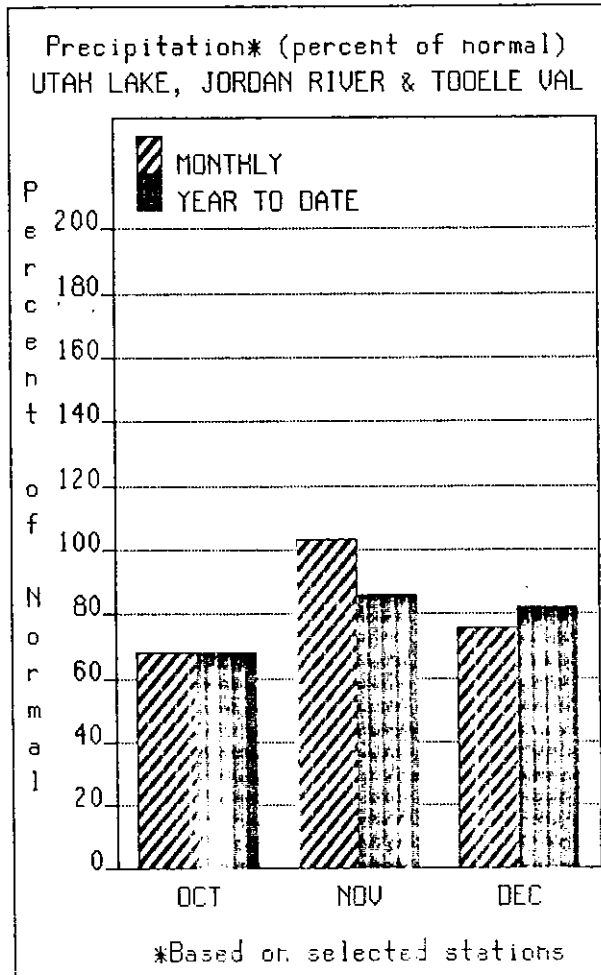
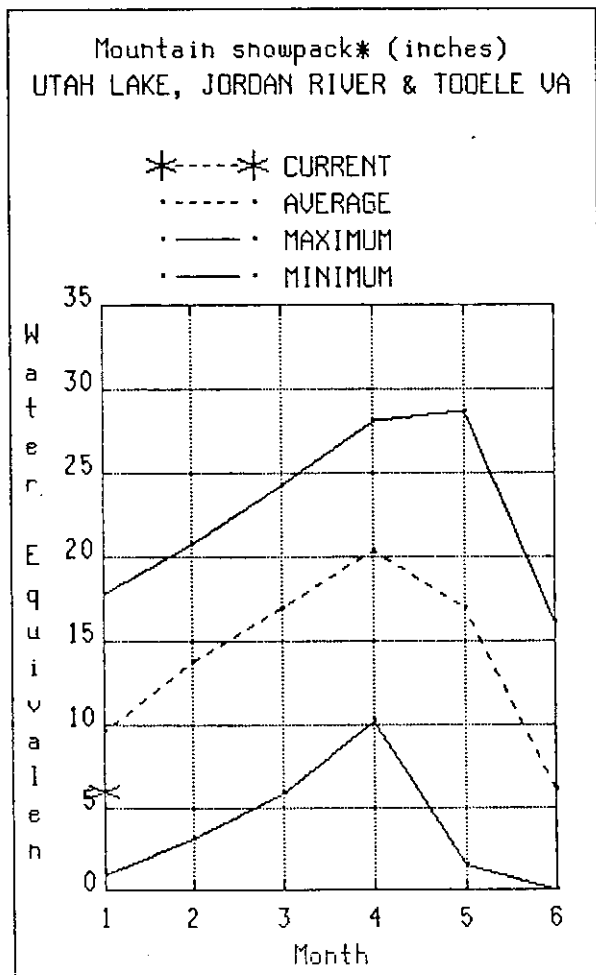
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

# UTAH LAKE, JORDAN RIVER & TOOEE VALLEY

JANUARY 1, 1991



Snowpack in the watershed draining into Utah Lake has only about one half the usual snow water equivalent. Overall, the Utah Lake, Jordan River and Tooele Valley area has only 64% of normal snow water. Tooele Valley is poorest with only 30%. This is the result of below normal mountain precipitation every month this water year. October 1 through December 31 precipitation was 82% of normal. Reservoir storage is seventeen percent below average (57% of capacity). Water supply forecasts for the coming season range from 52 to 78% of average given normal precipitation from now through the end of July.

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		CHANCE OF EXCEEDING *		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
<hr/>								
SALT CREEK near Nephi	APR-JUL	0.5	1.0	7.9	59	14.8	25	13.5
PAYSON CREEK near Payson	APR-JUL			5.0	68			7.3
SPANISH FORK near Castilla	APR-JUL			47	59			80
HOBBLE CREEK near Springville	APR-JUL			16.0	69			23
PROVO near Hailstone	APR-JUL	25	61	85	75	109	145	113
PROVO below Deer Creek Dam	APR-JUL	16.0	62	93	70	124	170	133
AMERICAN FORK near American Fk.	APR-JUL	17.0	24	28	82	32	39	34
UTAH LAKE inflow	APR-JUL	35	151	230	78	310	425	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	19.0	26	31	76	36	43	41
BIG COTTONWOOD CRK near SLC	APR-JUL	21	26	30	77	34	39	39
PARLEY'S CREEK near SLC	APR-JUL	1.7	6.6	10.0	59	13.4	18.3	1
MILL CREEK near SLC	APR-JUL	0.0	2.4	4.0	58	5.6	8.0	
EMIGRATION CREEK near SLC	APR-JUL			2.4	52			4.6
CITY CREEK near SLC	APR-JUL	0.6	2.6	3.9	43	5.2	7.2	9.0
VERNON CREEK near Vernon	APR-JUN	0.2	0.4	0.8	70	1.2	1.8	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.5	0.8	1.6	70	2.4	3.5	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.4	0.7	1.7	57	2.7	4.2	3.0

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			-----		
							LAST YR.	AVERAGE	
DEER CREEK	149.6	97.3	93.0	93.5	PROVO RIVER & UTAH LAKE	9	113	56	
GRANTSVILLE	3.3	1.0	1.0	---	PROVO RIVER	4	113	56	
SETTLEMENT CREEK	1.0	0.6	0.7	0.6	JORDAN RIVER & GREAT SALT	15	105	71	
STRAWBERRY-ENLARGED	951.4	476.6	348.2	---	TOOELE VALLEY WATERSHEDS	2	131	30	
UTAH LAKE	855.5	480.0	493.0	601.6	UTAH LAKE, JORDAN RIVER &	26	108	64	
VERNON CREEK	0.6	0.3	0.3	0.4					

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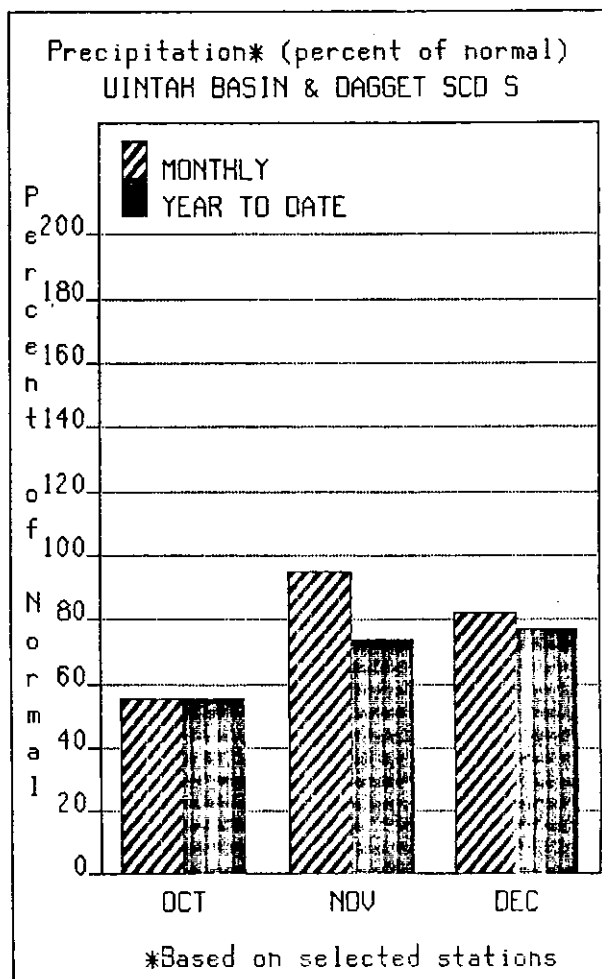
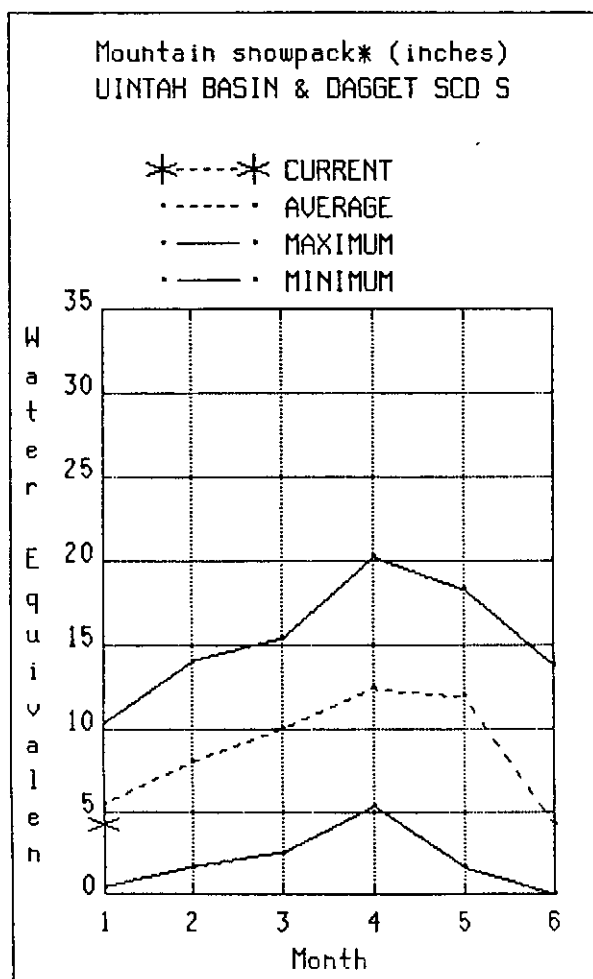
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# UINTAH BASIN & DAGGET SCD'S

JANUARY 1, 1991



The Uinta Mountains have 76% of normal snow water content for January 1. Individual watersheds range from 51% of average on the Black's Fork River to 111% on the Uintah-Whiterocks watershed. Overall, the snowpack is 124% of last year. Mountain precipitation has been below average every month so far this water year leaving seasonal (October 1 through December 31) accumulation at only 77% of average. Reservoir storage as of the end of December was 51% of capacity. This level of storage is 13% below average. Forecasts of streamflow for this season range from 55 to 81% of average with normal precipitation.

# **UINTAH BASIN & DAGGET SCD'S**

## **STREAMFLOW FORECASTS**

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
MEEKS CABIN Res Inflow	APR-JUL	29	50	65	68	80	101	96
STATE LINE Res Inflow	APR-JUL	8.7	15.4	20	67	25	31	30
HENRY'S FORK nr Manila	APR-JUL	12.0	23	30	67	37	48	45
GREEN RIVER nr Greendale 2	APR-JUL	470	715	885	70	1050	1300	1267
BIG BRUSH CREEK ab Red Fleet Res	APR-JUL	7.1	12.4	16.0	80	19.6	25	19.9
ASHLEY CREEK nr Vernal 2	APR-JUL	26	36	42	81	48	58	52
WEST FORK DUCHESNE RIVER nr Hanna	APR-JUL	10.5	15.6	19.0	68	22	28	28
DUCHESNE RIVER nr Tabiona	APR-JUL	46	64	77	70	90	108	110
UPPER STILLWATER Res Inflow	APR-JUL	32	49	60	73	71	88	82
ROCK CREEK nr Mountain Home	APR-JUL	36	55	68	72	81	100	95
DUCHESNE RIVER abv Knight Diversion	APR-JUL	74	109	133	70	157	192	190
STRAWBERRY RIVER nr Soldier Springs	APR-JUL	21	34	43	65	52	65	66
CURRENT CREEK nr Fruitland 2	APR-JUL	8.3	12.3	15.0	65	17.7	22	23
STRAWBERRY RIVER nr Duchesne (natural)	APR-JUL	42	64	79	65	94	116	121
STRAWBERRY RIVER inflow to Starvation	APR-JUL	24	36	44	66	52	64	67
LAKEFORK RIVER b/w Moon Lake 2	APR-JUL	31	44	53	75	62	75	71
YELLOWSTONE RIVER nr Altonah	APR-JUL	23	39	50	76	61	78	66
DUCHESNE RIVER at Myton 2	APR-JUL	33	112	165	60	220	295	275
UINTA RIVER nr Neola	APR-JUL	29	51	66	75	81	103	88
WHITEROCKS RIVER nr Whiterocks	APR-JUL	20	35	45	75	55	70	60
DUCHESNE RIVER nr Randlett	APR-JUL	34	86	187	55	290	435	340

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
FLAMING GORGE	3749.0	3063.0	2944.4	---	UPPER GREEN RIVER in UTAH	9	100	67
MOON LAKE	35.8	12.9	11.7	13.6	ASHLEY CREEK	2	176	90
RED FLEET	26.0	15.7	12.3	---	BLACK'S FORK RIVER	3	65	51
STEINAKER	33.3	6.4	4.0	18.2	SHEEP CREEK	2	91	52
STARVATION	165.3	99.4	101.9	105.2	DUCHESNE RIVER	12	141	81
STRAWBERRY-ENLARGED	951.4	476.6	348.2	---	LAKE FORK-YELLOWSTONE CRE	5	126	91
					STRAWBERRY RIVER	4	143	55
					UINTAH-WHITEROCKS RIVERS	2	170	111
					UINTAH BASIN & DAGGET SCD	21	124	76

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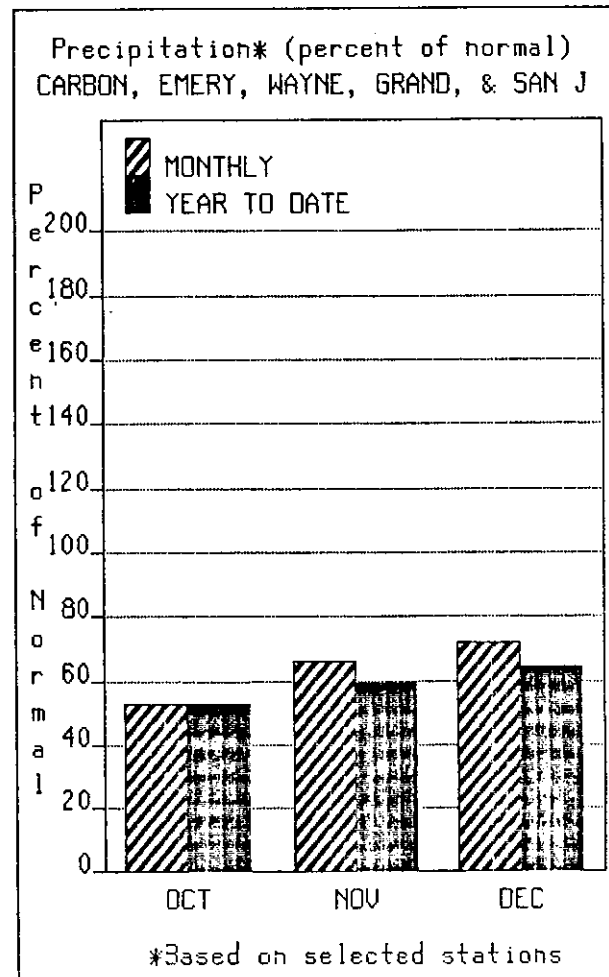
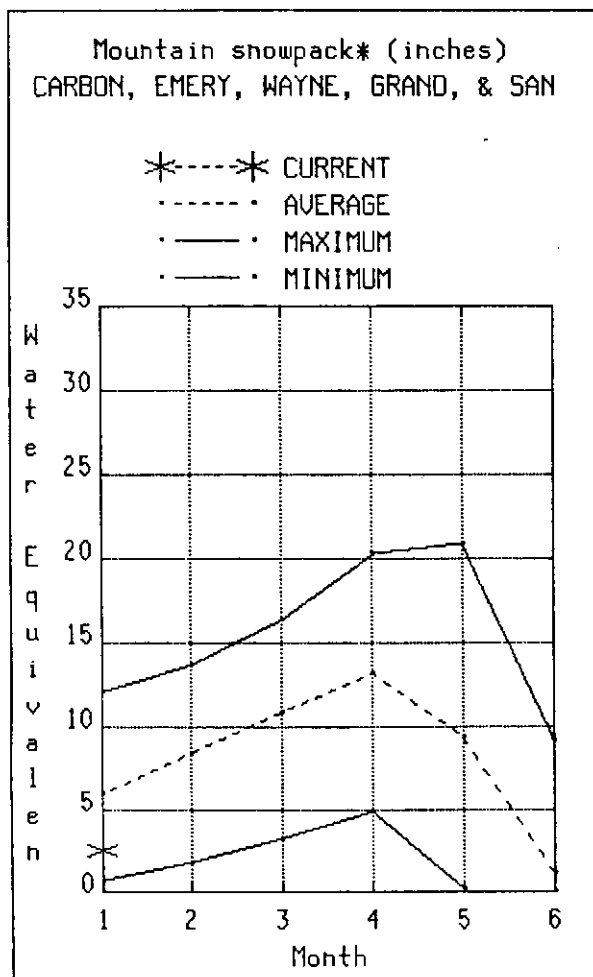
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# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

JANUARY 1, 1991



The snowpack in southeastern Utah is 42% of average overall but varies from 28% of average on the Book Cliffs to 64% on Muddy Creek. Snow water content would have to increase 44% more than usual for the next three months in southeastern Utah in order to reach normal April 1 levels. Seasonal precipitation (October 1 through December 31) is 36% below normal. Stored water reserves in area reservoirs are 43% below average at 30% of capacity. Forecasts based on January 1 snowpack and normal precipitation through July average 58% and range from 32 to 96% for next spring and summer streamflows.

# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<div style="display: flex; justify-content: space-between; align-items: center;"> <span>&lt;----- DRIER -----</span> <span>FUTURE CONDITIONS</span> <span>----- WETTER -----&gt;</span> </div>						
		CHANCE OF EXCEEDING *						25 YR. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
GOOSEBERRY CREEK nr Scofield	APR-JUL	1.0	4.3	6.6	55	8.9	12.2	12.0
SCOFIELD RESERVOIR inflow	APR-JUL	9.0	19.0	26	57	33	43	46
PRICE RIVER nr Heiner 2	APR-JUL	9.0	23	32	54	41	55	59
GREEN RIVER at Green River, UT 2	APR-JUL	830	1530	2000	63	2470	3170	3182
HUNTINGTON CREEK inf to Electric Lak	APR-JUL	3.0	6.6	9.0	60	11.4	15.0	15.1
HUNTINGTON CREEK nr Huntington 2	APR-JUL	8.0	21	30	55	39	52	55
Cottonwood Ck nr Orangeville 2	APR-JUL	12.0	22	27	57	50	83	47
Ferron Ck nr Ferron	APR-JUL	3.0	14.0	24	59	34	50	41
Colorado R nr Cisco, UT 2	APR-JUL	1020	2080	2800	81	3520	4580	3443
Mill Ck nr Moab	APR-JUL	1.4	2.2	2.9	53	5.1	8.2	5.5
Indian Ck nr Monticello	MAR-JUL	0.6	1.0	4.6	55	8.5	14.2	8.3
Seven Mile Ck nr Fish Lake	APR-JUL	0.8	1.4	2.1	32	4.1	7.0	6.5
Muddy Ck nr Emery	APR-JUL	3.6	4.5	11.0	52	17.5	27	21
Lloyd's Res inflow	MAR-JUL	0.1	0.2	1.5	44	3.9	7.6	3.4
Recapture Res inflow	MAR-JUL	0.3	0.8	3.5	57	6.2	10.2	6.1
San Juan R nr Bluff, UT 2	APR-JUL	400	785	1050	96	1310	1700	1091

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
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		THIS YEAR	LAST YEAR	AVG.			
HUNTINGTON NORTH	3.9	1.2	1.7	2.0	PRICE RIVER	3	76 36
JOE'S VALLEY	61.6	24.3	34.4	42.7	SAN RAFAEL RIVER	7	91 45
KEN'S LAKE	2.7	0.7	0.2	---	MUDDY CREEK	1	100 64
MILL SITE	16.7	11.8	6.9	3.0	FREMONT RIVER	5	159 35
SCOFIELD	65.8	7.2	11.2	30.3	LASAL MOUNTAINS	2	2700 49
					BLUE MOUNTAINS	2	3250 49
					WILLOW CREEK - WHITE RIVE	2	264 28
					CARBON, EMERY, WAYNE, GRA	22	134 42

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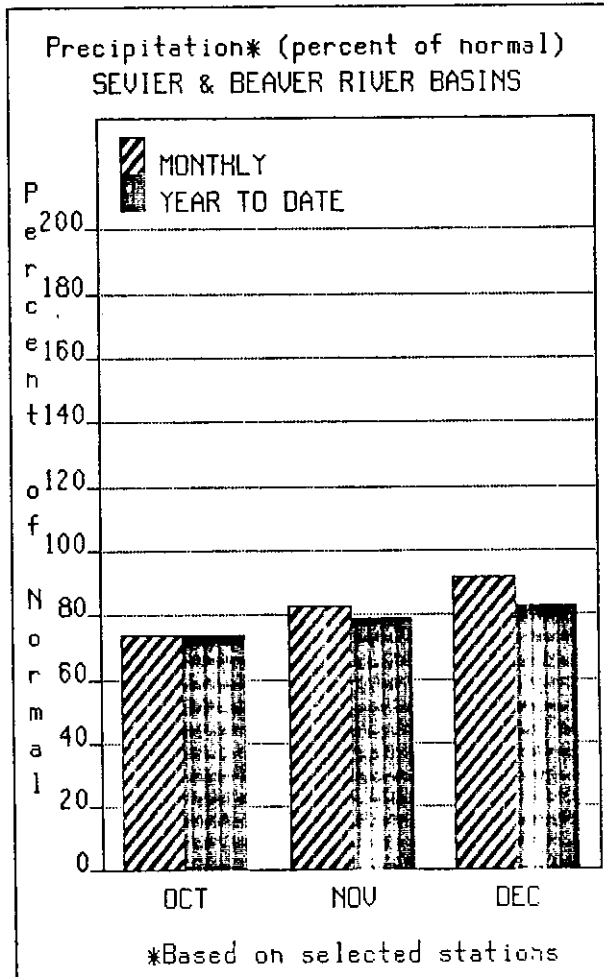
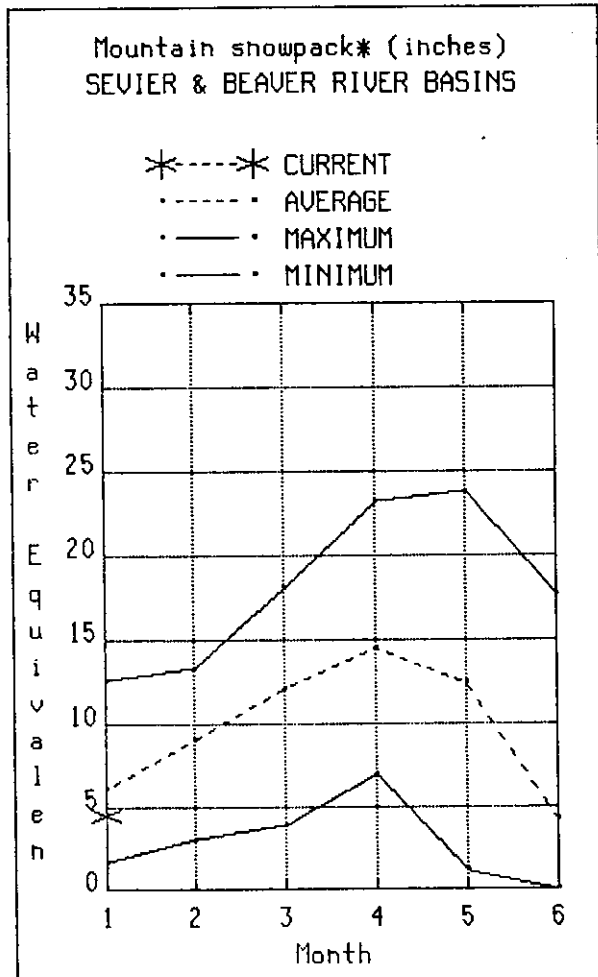
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(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# SEVIER & BEAVER RIVER BASINS

JANUARY 1, 1991



The Sevier River watershed has 73% of the snow water content it should have as of the first of January. This is 181% of last year. The snowpack will still have to increase 19% more than usual from January 1 through March 31 in order to reach normal by the first of April. Precipitation at mountain stations since the beginning of the water year has been 83% of normal with all three months below average. The reservoirs in the Sevier Basin would normally be holding 39% of their cumulative capacity by the end of December, this year they are 34% full. Streamflow forecasts range from 58 to 75% of average across the basin and average 66%.

# SEVIER & BEAVER RIVER BASINS

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		<----- DRIER ----->		----- WETTER ----->		CHANCE OF EXCEEDING *		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	0.0	20	34	65	48	68	52
SEVIER near Circleville	APR-JUL			34	77			44
SEVIER near Kingston	APR-JUL	2.0	4.0	22	65	40	68	34
ANTIMONY CREEK near Antimony	APR-JUL			6.0	67			8.9
E F SEVIER near Kingston	APR-JUL	3.6	6.3	16.0	67	26	40	24
SEVIER blw Piute Dam	APR-JUL	6.0	11.0	38	68	66	106	56
CLEAR CREEK near Sevier	APR-JUL			16.0	73			22
SIGURD to GUNNISON	APR-JUL	3.0	7.0	31	70	55	91	44
KINGSTON to VERMILLION DAM	APR-JUL			13.0	69			18.9
VERMILLION DAM to GUNNISON	APR-JUN			28	70			40
SALINA CREEK at Salina	APR-JUN			13.0	71			18.2
PLEASANT CREEK near Pleasant	APR-JUL			7.0	61			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			14.0	56			25
SEVIER nr Gunnison	APR-JUL			60	61			99
CHICKEN CREEK near Levan	APR-JUL	0.4	1.4	2.1	60	2.8	3.8	3.7
OAK CREEK near Oak City	APR-JUL	0.1	0.2	1.0	62	1.8	3.0	1.6
CHALK CREEK near Fillmore	APR-JUL	2.5	4.8	10.0	61	15.2	23	16.4
BEAVER RIVER near Beaver	APR-JUL	6.5	10.7	20	74	29	43	27
NORTH CREEK near Beaver (combined)	APR-JUL	1.5	3.0	10.5	72	18.0	29	14.6
MINERSVILLE RESERVOIR inflow	APR-JUL	2.9	5.1	11.7	70	18.3	28	16.7

## RESERVOIR STORAGE

(1000AF)

## WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNNISON	20.3	1.5	2.5	9.5	UPPER SEVIER RIVER (south	10	400	79
MINERSVILLE (RkyFd)	26.0	5.8	6.9	9.3	EAST FORK SEVIER RIVER	4	305	69
OTTER CREEK	52.7	16.1	14.5	23.8	SOUTH FORK SEVIER RIVER	6	470	85
PIUTE	71.8	21.0	38.0	29.3	LOWER SEVIER RIVER (inclu	12	132	69
SEVIER BRIDGE	236.0	94.8	122.2	87.0	BEAVER RIVER	2	250	86
PANQUITCH LAKE	22.3	9.0	4.5	---	SEVIER & BEAVER RIVER BAS	24	181	73

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

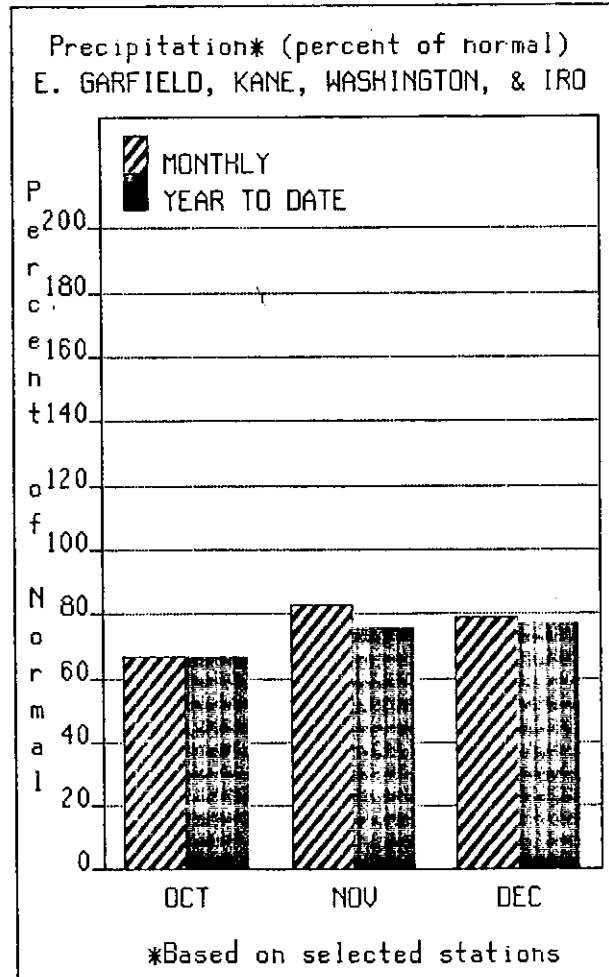
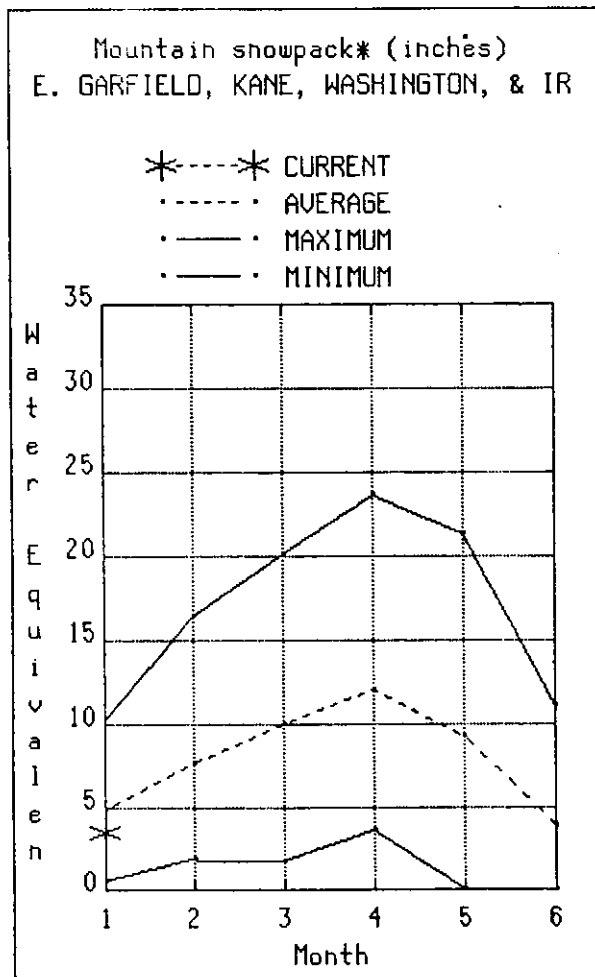
The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# E. GARFIELD, KANE, WASHINGTON, & IRON Co

JANUARY 1, 1991



Snowpacks of southwestern Utah are greatly improved over last years dismal supply on January 1st. (10%). Although this years 73% of average snow water equivalent is still below normal it projects a much more positive outlook for spring and summer streamflow. Rainfall accumulation for the water year is 77% of average. Streamflow forecasts based on January 1 data and normal subsequent precipitation range from 60 to 76% of average. Below normal precipitation in the future will further reduce projected flows.

# **E. GARFIELD, KANE, WASHINGTON, & IRON Co.**

## **STREAMFLOW FORECASTS**

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Coal Ck nr Cedar City	APR-JUL	3.8	8.7	12.0	60	15.3	20	20
Lake Powell Inflow	APR-JUL	2630	4520	5800	72	7080	8970	8086
Virgin R nr Hurricane	APR-JUN	9.0	31	46	68	61	83	68
Santa Clara R nr Pine Valley	APR-JUN	1.1	2.7	3.8	76	4.9	6.5	5.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AV'
GUNLOCK	10.4	4.7	4.7	---	VIRGIN RIVER	5	683	84
LAKE POWELL	25002.0	15761.0	18892.0	---	PAROWAN	4	517	65
QUAIL CREEK	40.0	15.0	---	---	ENTERPRISE TO NEW HARMONY	2	1850	80
UPPER ENTERPRISE	10.0	0.4	0.2	---	COAL CREEK	3	650	74
LOWER ENTERPRISE	2.6	0.2	0.2	---	ESCALANTE RIVER	2	4200	51
					E. GARFIELD, KANE, WASHIN	14	740	73

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.



SNOW COURSES  
FOR THE STATE OF UTAH  
AS OF JANUARY 1, 1990

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ALTA CENTRAL	8800	01/02	48	13.6	13.4	17.5	DILL'S CAMP SNOTEL	9200	01/01	-	3.75	3.7	5.8
ASHLEY TWIN LAKES	10500				-	7.5	DONKEY RESERVOIR SNO	9800	01/01	-	2.05	0.1	3.3
BEAVER DAMS	8000	01/02	-	3.1E	2.1	4.8	DRY BREAD POND	8350	01/02	-	5.6E	4.4	8.5
BEAVER DAMS SNOTEL	8000	01/01	-	3.25	2.3	4.8	DRY BREAD POND SNOTEL	8350	01/01	-	6.55	5.0	11.4
BEAVER DIVIDE SNOTEL	8280	01/01	-	2.85	2.2	5.8	EAST SHINGLE LAKE	9800				-	13.3
BEN LOMOND PK SNOTEL	8000	01/01	-	11.55	5.8	14.4	EAST WILLOW CREEK SN	8250	01/01	-	3.45	1.5	5.7
BEN LOMOND TR SNOTEL	6000	01/01	-	6.25	2.3	8.6	FARMINGTON CANYON L.	6950	01/02	-	7.1E	6.0	10.4
BEVAN'S CABIN	6450	01/02	-	1.4E	-	2.6	FARMINGTON CN SNOTEL	8000	01/01	-	8.95	6.7	12.9
BIG FLAT SNOTEL	10290	01/01	-	5.95	2.8	6.3	FARNSWORTH LAKE	9600	01/02	-	8.1E	4.5	8.3
BIRCH CROSSING	8100	01/02	-	2.0E	0.2	3.3	FARNSWORTH LK SNOTEL	9600	01/01	-	7.85	3.9	7.9
BLACK FLAT-U.M. CK S	9400	01/01	-	1.15	1.6	4.5	FISH LAKE	8700	01/02	-	0.9E	1.5	3.9
BLACK'S FORK GS-EF	9340	01/02	-	1.9E	3.5	3.7	FIVE POINTS LAKE SNO	10920	01/01	-	5.85	6.2	6.0
BLACK'S FORK JUNCTN	8930	01/02	-	1.9E	3.1	3.9	FRANCES FLATS	6700	01/02	29	7.0	6.3	10.1
BOX CREEK SNOTEL	9300	01/01	-	4.25	2.3	5.5	G.B.R.C. HEADQUARTER	8700	01/02	-	4.7E	4.7	7.3
BRIAN HEAD	10000	01/02	-	6.2E	1.5	9.1	G.B.R.C. MEADOWS	10000	01/02	-	5.0E	6.1	9.9
BRIGHTON CABIN	8700	01/02	36	8.7	9.5	12.9	GARDEN CITY SUMMIT	7600	01/02	-	4.6E	1.9	7.6
BRIGHTON SNOTEL	8750	01/01	-	8.45	8.6	15.4	GEORGE CREEK	8840				-	8.8
BROWN DUCK SNOTEL	10600	01/01	-	6.05	4.5	8.3	GOOSEBERRY R.S.	8400	01/02	-	4.3E	2.9	5.3
BRYCE CANYON	8000	12/31	12	2.0	0.0	2.1	GOOSEBERRY R.S. SNOT	7900	01/01	-	3.95	2.0	4.7
BUCK FLAT SNOTEL	9800	01/01	-	3.75	2.9	6.8	HARDSCRABBLE	6700	01/02	-	6.0E	4.9	9.3
BUCK PASTURE	9700				-	9.0	HARRIS FLAT	7700	01/02	-	3.4E	0.3	3.4
BUCKBOARD FLAT	9000	01/02	-	3.2E	0.2	6.5	HARRIS FLAT SNOTEL	7700	01/01	-	3.25	0.0	3.1
BUG LAKE SNOTEL	7950	01/01	-	5.55	5.0	9.6	HAYDEN FORK	9400	01/02	-	4.2E	4.2	6.2
BURT'S-MILLER RANCH	7900	01/02	-	1.2E	1.6	2.4	HAYDEN FORK SNOTEL	9100	01/01	-	5.25	4.7	7.5
CAMP JACKSON	8600	01/02	-	3.3E	0.0	6.7	HENRY'S FORK	10000				-	6.5
CAMP JACKSON SNOTEL	8600	01/01	-	3.35	0.0	6.7	HEWINTA SNOTEL	9500	01/01	-	3.45	3.4	3.8
CASTLE VALLEY	9580	01/02	-	3.7E	0.7	6.1	HICKERSON PARK SNOT	9100	01/01	-	2.05	1.4	3.8
CASTLE VALLEY SNOTEL	9580	01/01	-	3.35	0.4	5.4	HIDDEN SPRINGS	5500	01/02	14	4.0	2.0	4.1
CHALK CK #1 SNOTEL	9100	01/01	-	9.45	6.4	10.5	HOBBLE CREEK SUMMIT	7420	12/21	24	3.8	3.0	6.9
CHALK CK #2 SNOTEL	8200	01/01	-	6.15	5.1	6.7	HOLE-IN-ROCK SNOTEL	9150	01/01	-	2.45	1.8	2.8
CHALK CREEK #3	7500	01/02	-	3.2E	1.3	3.6	HORSE RIDGE SNOTEL	8260	01/01	-	9.05	3.0	10.4
CHEPETA SNOTEL	10300	01/01	-	7.45	5.0	5.2	HUNTINGTON-HORSESHOE	9800	01/02	-	5.8E	5.8	10.2
CITY CREEK	7500	01/02	36	8.9	7.8	13.0	INDIAN CANYON SNOTEL	9100	01/01	-	2.65	1.9	5.5
CLEAR CK RIDG #1 SNT	9200	01/01	-	5.35	4.4	9.1	JOHNSON VALLEY	8850	01/02	-	0.8E	1.2	3.3
CLEAR CK RIDG #2 SNT	8000	01/01	-	4.75	3.1	7.0	KILFOIL CREEK	7300	01/02	-	5.1E	3.9	6.0
CLEAR CREEK MEADOWS	9420	1/01	-	7.9E	4.8	9.5	KILLION CANYON	6300	01/02	19	4.3	3.0	5.4
CLEAR CREEK RIDGE #3	6600	01/02	-	2.5E	2.0	3.8	KIMBERLY MINE SNOTEL	9300	01/01	-	7.15	3.0	4.3
CORRAL	8200				-	-	KING'S CABIN SNOTEL	8730	01/01	-	4.65	2.9	5.8
CURRENT CREEK SNOTEL	8000	01/01	-	2.85	1.8	4.9	KLONDIKE NARROWS	7400	01/02	-	5.8E	3.7	8.2
DANIELS-STRAWBERRY S	8000	01/01	-	3.95	2.9	6.9	KOLOR SNOTEL	9250	01/01	-	7.25	1.0	7.0
DESERET PEAK	9250	01/02	-	2.8E	-	12.2	LAKEFORK #1 SNOTEL	10100	01/01	-	6.45	3.8	6.1
DESERET PEAK AM	9250				-	12.2	LAKEFORK BASIN SNOTE	10900	01/01	-	6.65	6.7	7.4
DESERET PEAK SNOTEL	9250	01/01	-	2.85	4.3	12.2	LAKEFORK MOUNTAIN #3	8400	01/02	-	3.2E	1.1	3.1

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
LAMBS CANYON	7400	12/27	28	6.4	6.3	7.3	ROCK CREEK SNOTEL	7900	01/01	-	3.8S	1.8	4.4
LASAL MOUNTAIN LOWER	8800	01/02	-	2.2E	0.0	4.5	ROCKY BASIN-SETTLEMT	8900	01/02	-	7.4E	-	13.7
LASAL MOUNTAIN SNOTE	9850	01/01	-	3.2S	0.2	6.5	ROCKY BN-SETTLEMT SN	8900	01/01	-	6.2S	6.4	11.3
LILY LAKE SNOTEL	9050	01/01	-	3.8S	4.1	7.9	SEELEY CREEK SNOTEL	10000	01/01	-	3.1S	3.1	6.0
LITTLE BEAR LOWER	6000	01/02	-	3.1E	-	5.0	SHINGLE MILL	6200	01/02	-	3.9E	1.6	4.0
LITTLE BEAR SNOTEL	6550	01/01	-	4.4S	1.8	6.5	SILVER LAKE(BRIGHT.)	8730	01/02	34	8.4	8.0	10.9
LITTLE GRASSY CREEK	6100	01/02	-	1.2E	0.2	1.0	SMITH MOREHOUSE SNTL	7600	01/01	-	4.4S	4.1	5.7
LITTLE GRASSY SNOTEL	6100	01/01	-	1.3S	0.0	1.0	SNOWBIRD GAD VALLEY	9700	12/29	39	11.2	13.0	19.5
LONG FLAT SNOTEL	8000	01/01	-	2.5S	0.0	3.6	SNOWBIRD SNOTEL	9700	01/01	-	9.8S	11.0	18.5
LONG VALLEY JCT.	7500	01/02	-	1.8E	0.0	2.3	SPIRIT LAKE	10300	01/02	-	2.9E	4.0	5.6
LONG VALLEY JCT. SNT	7500	01/01	-	1.9S	0.0	2.3	SQUAW SPRINGS	9300	01/02	-	2.9E	1.4	3.9
LOOKOUT PEAK SNOTEL	8200	01/01	-	7.1S	6.9	10.8	STEEL CREEK PARK SNO	10100	01/01	-	4.2S	5.7	8.1
LOST CREEK RESERVOIR	6130	01/02	-	2.0E	1.1	2.3	STILLWATER CAMP	8550	01/02	-	3.0E	2.8	4.4
MAMMOTH-COTTONWOOD SNT	8800	01/01	-	4.2S	4.2	7.2	STRAWBERRY DIVIDE SN	8400	01/01	-	5.1S	3.5	9.0
MAMMOTH-COTTONWOOD	8800	01/02	-	5.1E	4.6	9.0	STUART R.S.	7950	01/02	-	1.2E	1.8	4.1
MERCHANT VALLEY SNOT	8750	01/01	-	4.6S	1.4	5.9	SUSC RANCH	8200	01/02	-	2.8E	0.0	3.6
MIDDLE CANYON	7000	01/02	-	3.3E	-	6.1	TALL POLES	8800	01/02	-	4.2E	0.5	6.2
MIDWAY VALLEY	9800	01/02	-	6.1E	1.0	9.0	THAYNES CANYON SNOTL	9200	01/01	-	6.2S	5.6	9.4
MIDWAY VALLEY SNOTEL	9800	01/01	-	6.4S	3.0	9.2	THISTLE FLAT	8500	-	-	-	-	6.8
MILL CREEK	6950	12/27	32	7.9	6.9	9.8	TIMBERLINE	9100	-	-	-	-	-
MILL-D NORTH SNOTEL	8960	01/01	-	7.7S	6.3	12.4	TIMPANOGOS DIVIDE SN	8140	01/01	-	7.0S	5.9	9.7
MILL-D SOUTH FORK	7400	01/03	29	7.1	8.0	8.6	TONY GROVE LK SNOTEL	8400	01/01	-	10.5S	8.6	16.9
MINING FORK SNOTEL	8000	01/01	-	2.6S	3.4	11.8	TONY GROVE R.S.	6250	01/02	-	3.1E	2.4	5.1
MONTE CRISTO R.S.	8960	01/02	-	7.8E	6.0	9.6	TRIAL LAKE	9960	01/02	-	5.1E	5.7	11.0
MONTE CRISTO SNOTEL	8960	01/01	-	9.2S	4.3	11.2	TRIAL LAKE SNOTEL	9960	01/01	-	5.9S	5.7	14.0
MOSBY MTN. SNOTEL	9500	01/01	-	5.2S	2.4	6.2	TROUT CREEK SNOTEL	9400	01/01	-	4.9S	2.5	4.7
MT. BALDY R.S.	9500	01/02	-	6.8E	4.8	10.0	UPPER JOES VALLEY	8900	01/02	-	1.3E	2.7	4.4
MUD CREEK #2	8600	01/02	-	3.4E	2.6	6.0	UPPER MILL CREEK	8300	-	-	-	-	-
OAK CREEK	7760	01/02	-	2.9E	3.2	6.1	VERNON CREEK SNOTEL	7500	01/01	-	2.5S	0.5	5.2
ONE MILE SUMMIT	7330	-	-	-	-	1.5	VIPONT	7670	-	-	-	-	6.2
OTTER LAKE	9600	-	-	-	-	5.2	WEBSTER FLAT SNOTEL	9200	01/01	-	5.4S	1.2	6.8
PANQUITCH LAKE	8200	01/02	-	1.4E	0.0	2.4	WHITE RIVER #1 SNOTE	8550	01/01	-	1.5S	2.2	6.3
PARLEY'S CANYON SNOT	7500	01/01	-	5.3S	3.8	8.3	WHITE RIVER #3	7400	01/02	-	1.0E	3.0	3.9
PARLEY'S CANYON SUM.	7500	12/27	30	7.1	5.8	8.3	WIDTSOE #3 SNOTEL	9500	01/01	-	2.2S	0.0	4.9
PAYSON R.S.	8050	01/02	-	3.6E	4.9	8.3	WRIGLEY CREEK	9000	01/02	-	2.3E	1.9	4.4
PAYSON R.S. SNOTEL	8050	01/01	-	4.6S	3.5	10.6	YANKEE RESERVOIR	8700	01/02	-	2.6E	0.7	4.4
PICKLE KEG SNOTEL	9600	01/01	-	4.8S	3.0	6.9	-	-	-	-	-	-	-
PICKLE KEG SPRING	9600	01/02	-	4.8E	2.6	7.0	-	-	-	-	-	-	-
PINE CREEK	8800	01/02	-	7.5E	3.2	7.7	-	-	-	-	-	-	-
PINE CREEK SNOTEL	8800	01/01	-	8.8S	5.1	8.8	-	-	-	-	-	-	-
RED PINE RIDGE SNOTE	9200	01/01	-	2.5S	3.7	8.2	-	-	-	-	-	-	-
REDDEN MINE LOWER	8500	01/02	-	4.0E	4.7	8.6	-	-	-	-	-	-	-
REES'S FLAT	7300	01/02	-	2.8E	4.4	6.6	-	-	-	-	-	-	-

NOTE:

The S flag following Water Content for SNOTEL sites indicates telemetered data, the Depth reading preceding S flagged data was measured around the snow pillows at the time of the ground survey and may not be the same date as the telemetered value.

# STATE OF UTAH GENERAL OUTLOOK

February 1, 1991

## SUMMARY

Mountain precipitation was much below normal in January dimming hopes that our four year drought would finally end and increasing the odds of a fifth year of much below average runoff. As of the first of February our snowpack is 67% of normal, mountain precipitation for the water year is 73% of normal, reservoir storage is 64% of normal and projections of streamflow for next spring and summer average 61% of normal for the State as a whole.

## SNOWPACK

Snowpack across the watersheds of Utah contains more water than last year on February first but still lags behind normal by 33%. The last time snowpack was average or greater across the State on February first was in 1986. Snow water content ranges from 48% of normal in southeastern Utah to 73% on the Weber River. Normally during February and March the snowpack would increase by 5.7 inches of water content statewide. This year an additional 9.1 inches is needed to reach average by April first (an amount recorded only twice in the last 30 years). It looks like we are headed into our fifth straight year of below normal snowpack in most areas of the State.

## PRECIPITATION

Precipitation at SNOTEL stations throughout the state of Utah amounted to 62% of normal during the month of January. Individual areas of the State ranged from 46% of the January average in southwestern Utah to 69% on the Utah Lake-Jordan River-Tooele Valley watersheds. Precipitation totals for the water year now stand at 73% of average statewide and range from 63% of normal in southeastern Utah to 77% on the Sevier River watershed. It should be noted, however, that mountain precipitation has been better than last year and much more generous in Utah than in the states to the west of us.

Valley precipitation for the first half of January was rather active with hopes of having widespread above normal amounts of precipitation. Unfortunately, the later half was mostly dry and these hopes dried-up.

January precipitation in the north ranged from 55-75 percent of the normal, Ogden Pioneer noted 114 percent of normal and Cottonwood Weir (mouth of Big Cottonwood Canyon) 111 percent of normal while Logan USU was a sad 40 percent.

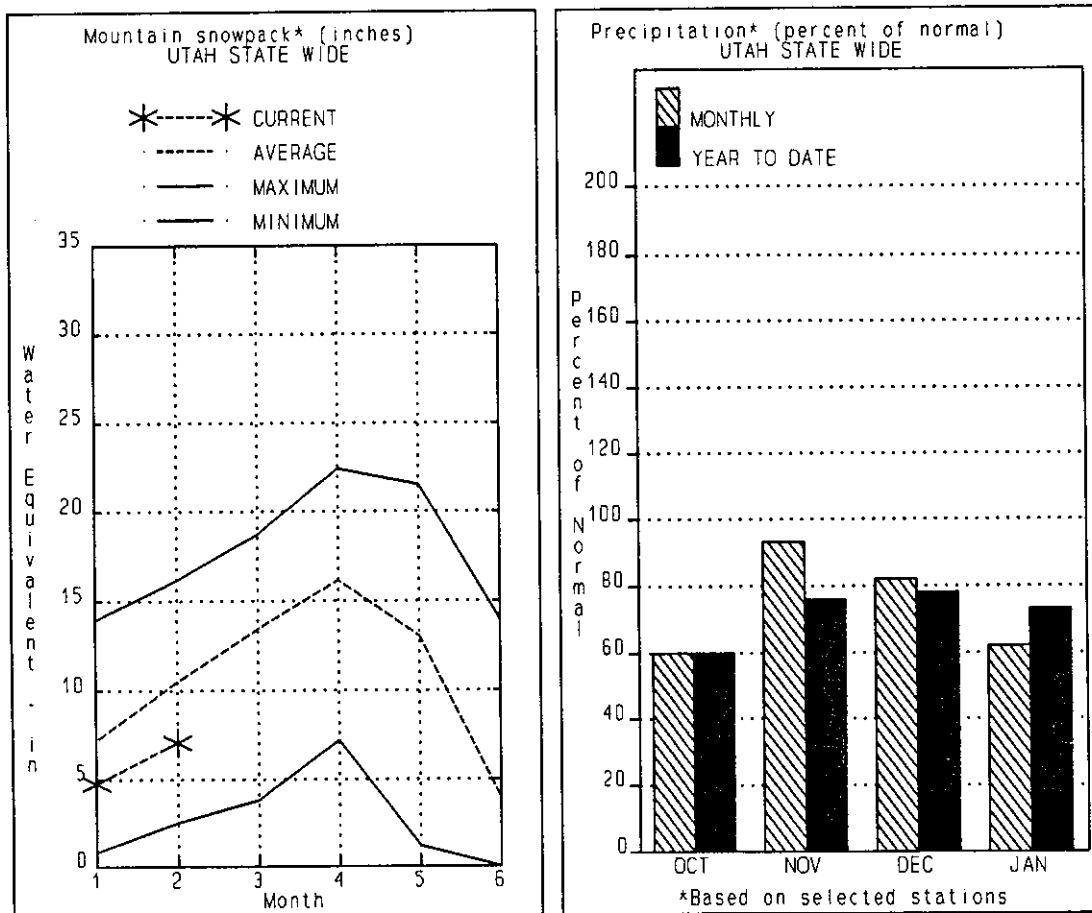
Low elevation precipitation amounts were a little more impressive in the south, ranging from 65-85 percent of normal, seasonal precipitation being 75-95 percent. In fact, there are several stations that are reporting seasonal precipitation over 110 percent, Beaver 126 percent, Kanosh 117 percent, and Minersville 138 percent.

## RESERVOIRS

Reservoir operators throughout Utah are in the store mode. Every acre-foot of water that can be stored is being stored but with the extremely low inflow volumes currently being received increases in storage are hard to achieve. Storage in the 26 reservoirs in our sample are still only holding 42% of their combined capacity (the same as reported last month). Normally by the end of January these reservoirs would contain 65% of capacity. Last year they held 56% of capacity. Individual reservoirs have storage ranging from 11% of capacity in Gunnison Reservoir to 70% in Hyrum Reservoir.

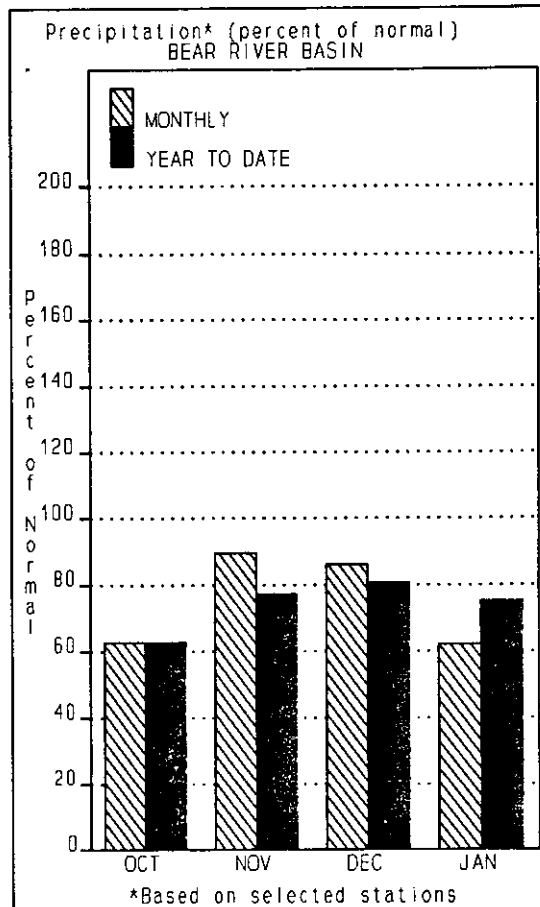
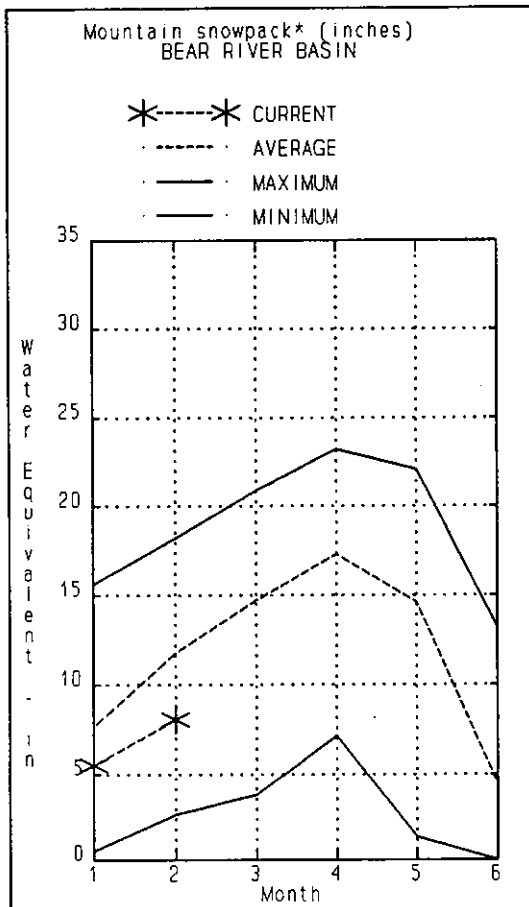
## STREAMFLOW

Water supply forecasts for next spring and summer are even less optimistic than last month. Across the State projections are approximately 5% lower on average than those released on January first due to below normal precipitation last month. Unlike some recent years in which certain areas of the State were at more of a deficit than other areas, this year forecasts are low everywhere. Average basin forecasts range from 58% of normal in southeastern Utah to 66% for the Uintas. The high pressure regime that has been forcing storms both north and south of Utah shows no signs of weakening and the outlook for improvement in the precipitation picture is not favorable at this time.



# BEAR RIVER BASIN

February 1, 1991



Snow water equivalent in the Bear River watershed snowpack is 68% of normal for the first of February which is the same as last year. Sixty-two percent more additional snow water than normal will have to accumulate in the next two months if we are to realize an average snow year in 1991. Precipitation at SNOTEL stations was 58% of normal in January resulting in 74% of the normal total for the water year (October through January). Reservoir contents ranges from 34% of capacity in Porcupine Reservoir to 70% of capacity in Hyrum Reservoir. Usable storage in Bear Lake is only 50% of average. Forecasts of streamflow for next April through July are reduced from last month and now range from 44% to 73% of average.

## BEAR RIVER BASIN

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BEAR RIVER nr Ut-Wy Stateline	APR-JUL	41	60	73	63	86	105	116
BEAR near Woodruff (2)	APR-JUL	12.0	44	87	58	130	193	150
WOODRUFF CREEK near Woodruff	APR-JUL	4.9	8.5	11.0	64	13.5	17.1	17.3
BIG CREEK near Randolph	APR-JUL	0.5	1.7	3.2	60	4.7	6.9	5.3
BEAR near Randolph	APR-JUL	6.0	14.0	55	44	96	156	126
SMITHS FORK near Border, WY	APR-SEP	40	61	76	66	91	112	115
THOMAS FORK near Wy-Id Stateline	APR-SEP	7.0	16.0	23	62	30	39	37
BEAR RIVER near Harer	APR-SEP	26	99	175	56	250	360	310
BEAR RIVER blw Stewart Dam (2)	APR-SEP	42	109	155	52	200	270	298
CUB RIVER near Preston	APR-JUL	14.0	26	34	73	42	54	47
LITTLE BEAR RIVER near Paradise	APR-JUL	5.0	11.0	25	55	39	59	46
LOGAN RIVER near Logan	APR-JUL	37	66	85	70	104	133	122
BLACKSMITH FORK near Hyrum	APR-JUL	2.0	21	34	60	47	66	57

### RESERVOIR STORAGE

(1000AF)

### WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS	LAST	AVG.			LAST YR.	AVERAGE
		YEAR	YEAR					
BEAR LAKE	1421.0	493.6	730.6	987.6	BEAR RIVER, UPPER (above	12	92	68
HYRUM	15.3	10.7	10.1	10.3	BEAR RIVER, LOWER (below	11	113	66
PORCUPINE	11.3	3.8	3.8	2.9	LOGAN RIVER	5	123	66
WOODRUFF NARROWS	55.8	15.2	---	---	BEAR RIVER DRAINAGE	23	101	67
WOODRUFF CREEK	4.0	1.8	---	---	RAFT RIVER	1	87	77
					BEAR RIVER BASIN	24	100	68

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

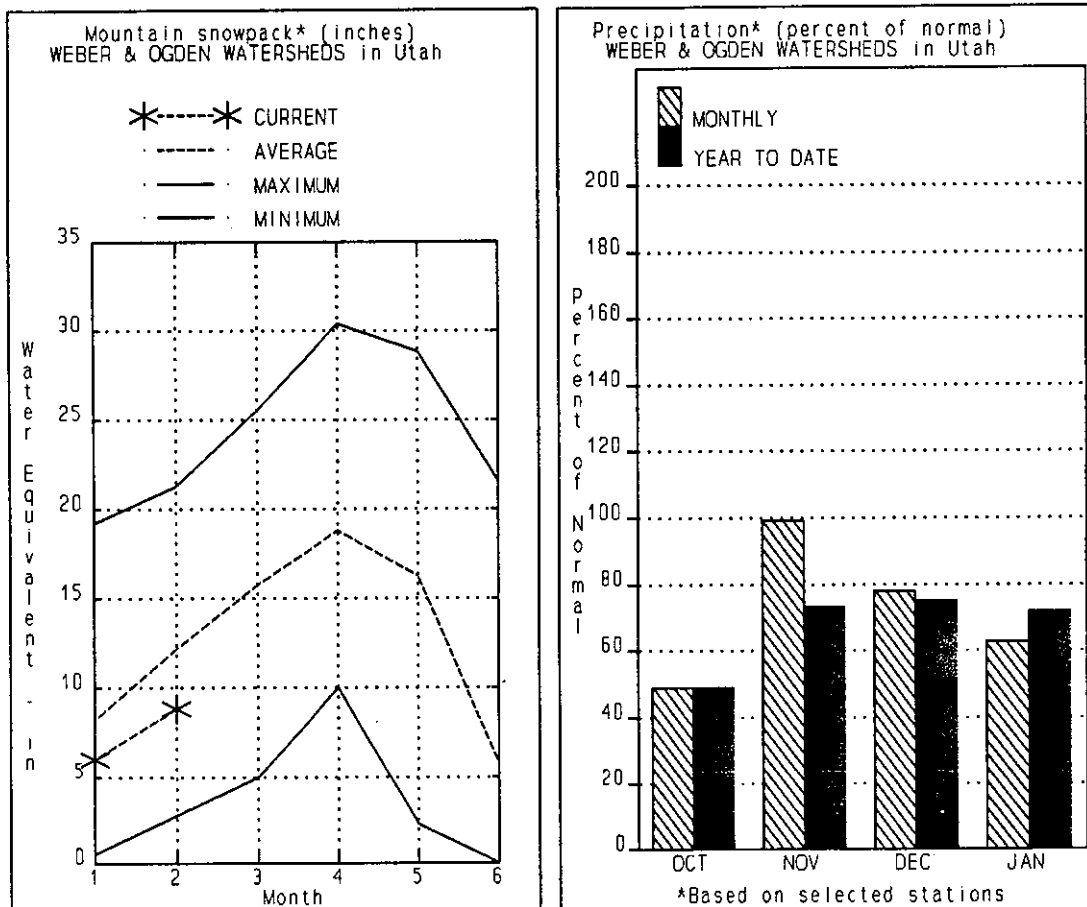
The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# WEBER & OGDEN WATERSHEDS in Utah

February 1, 1991



The water content in the Weber River watershed snowpack as estimated by the SNOTEL system is 73% of the February first average. January produced less than normal increase to the snowpack. February and March storms will have to yield one-third more additional water content than normal to the snowpack if we are to reach average by the first of April. Precipitation at mountain stations since the beginning of the water year now stands at 72% of average. Reservoirs in the Weber River basin currently hold only 42% of their combined capacity. Last year they held 63% of capacity. Water supply forecasts for the upcoming spring and summer are slightly less than last month ranging from 60% to 73% of average.

# **WEBER & OGDEN WATERSHEDS in Utah**

## **STREAMFLOW FORECASTS**

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
<hr/>								
SMITH AND MOREHOUSE CREEK near Oakle	APR-JUN	10.0	17.0	22	73	27	34	30
WEBER RIVER near Oakley	APR-JUL	49	70	85	68	100	121	125
ROCKPORT RESERVOIR inflow	APR-JUL	38	68	88	65	108	138	136
CHALK CREEK at Coalville, Ut	APR-JUL	1.0	17.0	28	62	39	55	45
WEBER RIVER near Coalville, Ut	APR-JUL	36	67	88	62	109	141	142
ECHO RESERVOIR Inflow	APR-JUL	33	78	108	62	138	183	174
LOST CREEK Res Inflow	APR-JUL	1.8	6.8	12.0	66	17.2	25	18.3
EAST CANYON CREEK near Morgan	APR-JUL	6.3	14.5	20	65	26	34	31
HARDSCRABBLE CREEK near Porterville	APR-JUN	1.8	5.9	12.0	65	18.1	27	18.4
WEBER RIVER at Gateway	APR-JUL	161	200	230	61	260	300	374
S FORK OGDEN RIVER nr Huntsville	APR-JUL	16.0	31	41	62	51	66	66
PINEVIEW RESERVOIR Inflow	APR-JUL	38	73	96	60	120	154	159
WHEELER CREEK near Huntsville	APR-JUL	1.9	3.3	4.2	65	5.1	6.5	6.5
FARMINGTON CREEK near Farmington	APR-JUL	0.8	3.0	5.7	70	8.4	12.5	8.2

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF ----- LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
CAUSEY	7.1	1.9	1.9	2.2	OGDEN RIVER	4	118 69
EAST CANYON	48.1	24.5	33.4	34.7	WEBER RIVER	14	109 75
ECHO	73.9	35.1	39.5	45.8	WEBER & OGDEN WATERSHEDS	18	111 73
LOST CREEK	22.5	10.5	14.6	13.1			
PINEVIEW	110.1	33.7	62.7	49.6			
ROCKPORT	60.9	24.1	38.2	31.9			
WILLARD BAY	185.0	85.7	127.9	110.6			

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

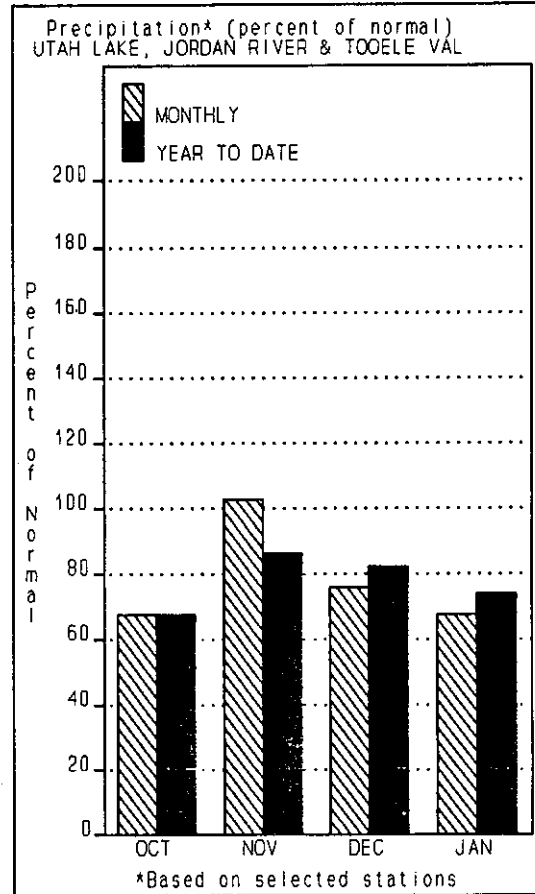
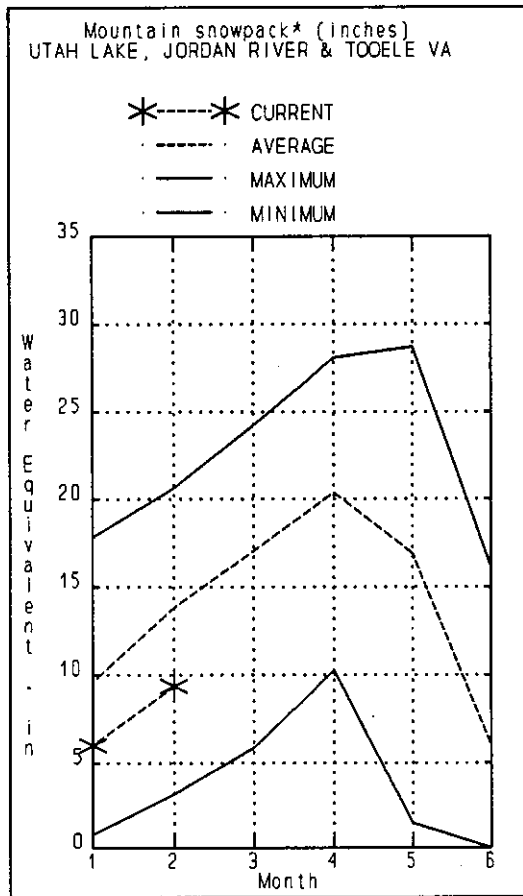
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.



# UTAH LAKE, JORDAN RIVER & TOOEELE VALLEY

February 1, 1991



The snowpack on the watersheds draining into Utah Lake, the Jordan River and Tooele Valley contains 68% of the normal water content for February first. This is the only division of the seven divisions we report on that has less water content than last year at this time. February and March storms will have to produce 65% more water than usual to bring the snowpack to average by April first. Mountain precipitation was 69% of normal during January bringing the water year total to 75%. Utah Lake contains less than one-half of usable capacity and Deer Creek Reservoir contains 69% of capacity. Forecasts of streamflow for next April through July are down from last month and now range from 41% to 69% of average.

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		<----- DRIER ----->		CHANCE OF EXCEEDING *		<----- WETTER ----->		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
<hr/>								
SALT CREEK near Nephi	APR-JUL	0.7	1.7	7.9	59	14.1	23	13.5
PAYSON CREEK near Payson	APR-JUL			4.3	59			7.3
SPANISH FORK near Castilla	APR-JUL			46	58			80
<hr/>								
HOBBLE CREEK near Springville	APR-JUL			13.6	58			23
PROVO near Hailstone	APR-JUL	27	57	77	68	97	127	113
PROVO below Deer Creek Dam	APR-JUL	22	60	85	64	110	148	133
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AMERICAN FORK near American Fk.	APR-JUL	13.0	18.0	22	65	26	31	34
UTAH LAKE inflow	APR-JUL	65	145	200	68	255	335	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	18.0	24	28	68	32	38	41
<hr/>								
BIG COTTONWOOD CRK near SLC	APR-JUL	19.0	24	27	69	30	35	39
PARLEY'S CREEK near SLC	APR-JUL	3.1	7.2	10.0	59	12.8	16.9	17.0
MILL CREEK near SLC	APR-JUL	0.1	2.4	4.0	58	5.6	7.9	6.9
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EMIGRATION CREEK near SLC	APR-JUL			2.2	48			4.6
CITY CREEK near SLC	APR-JUL	0.9	2.6	3.7	41	4.8	6.5	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.4	0.8	67	1.2	1.7	1.2
<hr/>								
SETTLEMENT CREEK near Tooele	APR-JUL	0.2	0.8	1.5	65	2.2	3.3	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.1	0.7	1.7	57	2.7	4.1	3.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	102.7	101.2	94.3	PROVO RIVER & UTAH LAKE	9	89	55
GRANTSVILLE	3.3	1.1	1.3	---	PROVO RIVER	4	82	54
SETTLEMENT CREEK	1.0	0.7	0.7	0.5	JORDAN RIVER & GREAT SALT	15	100	77
STRAWBERRY-ENLARGED	951.4	474.1	344.6	---	TOOELE VALLEY WATERSHEDS	2	116	38
UTAH LAKE	855.5	403.4	530.6	648.6	UTAH LAKE, JORDAN RIVER &	26	97	68
VERNON CREEK	0.6	0.4	0.5	0.5				

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

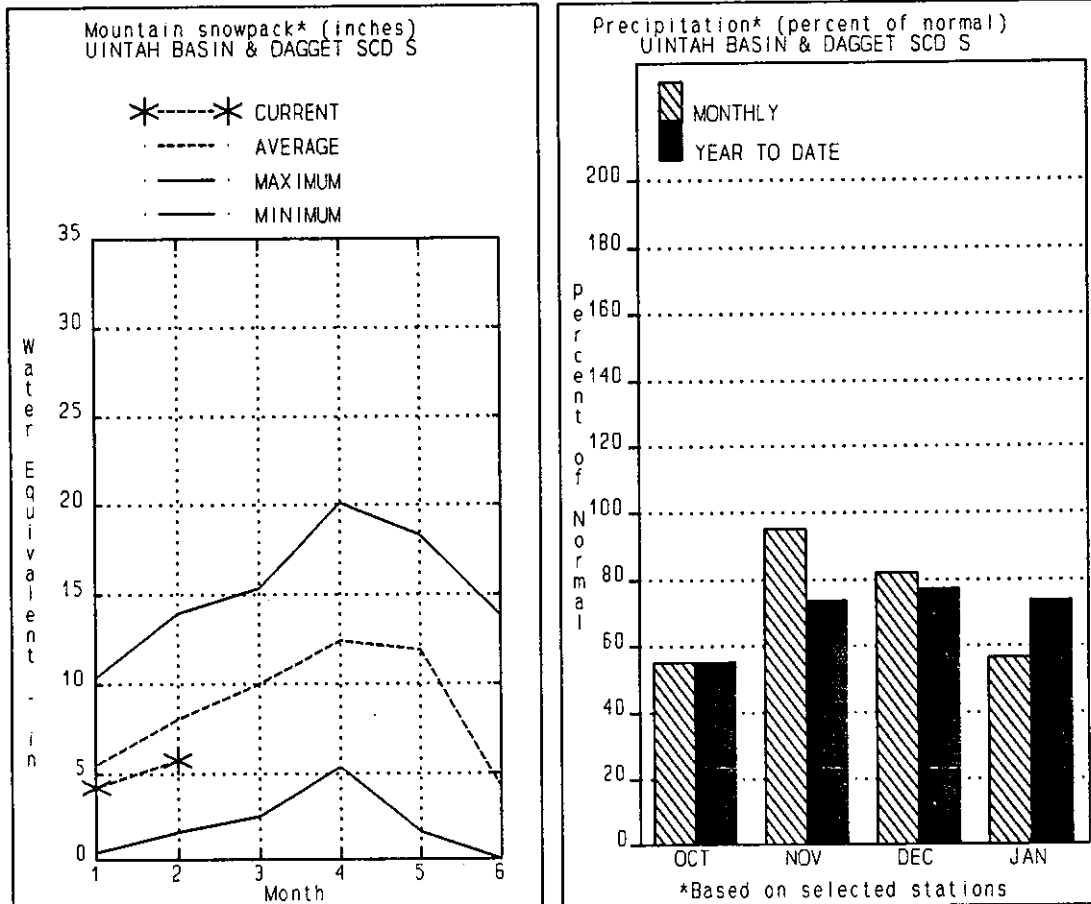
The average is computed for the 1961-1985 base period.

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(2) - The value is natural flow - actual flow may be affected by upstream water management.

# UINTAH BASIN & DAGGET SCD'S

February 1, 1991



Snow water equivalent in the snowpack on the Uintas is 71% of the February first average--almost identical to last year. January storms produced only slightly better than one-half the normal increase in water content. The next two months will have to yield 57% more additional snow water than usual to bring the water content to normal by April first. Mountain precipitation for the water year is 74% of average. Reservoir storage is slightly greater than last year with 59% of capacity filled. Last year at the end of January, 57% of live capacity was filled. April through July streamflow forecasts range from 50% of average on the Duchesne near Randlett to 77% on Ashley Creek near Vernal.

# UINTAH BASIN & DAGGET SCD'S

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						
		CHANCE OF EXCEEDING *						25 YR. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
MEEKS CABIN RESV Inflow	APR-JUL	26	46	60	63	74	94	96
STATE LINE RESV Inflow	APR-JUL	9.4	15.7	20	67	24	31	30
HENRY'S FORK nr Manila	APR-JUL	13.0	23	30	67	37	47	45
FLAMING GORGE RESV Inflow 2	APR-JUL	440	655	800	63	945	1160	1267
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	6.6	11.6	15.0	75	18.4	23	19.9
ASHLEY CK nr Vernal 2	APR-JUL	26	35	40	77	46	54	52
WF DUCHESNE R nr Hanna	APR-JUL	10.5	15.0	18.0	64	21	26	28
DUCHESNE R nr Tabiona	APR-JUL	44	60	70	64	80	96	110
UPPER STILLWATER RESV Inflow	APR-JUL	33	47	57	70	67	81	82
ROCK CK nr Mountain Home	APR-JUL	35	53	65	68	77	95	95
DUCHESNE R abv Knight Diversion	APR-JUL	71	100	120	63	140	169	190
STRAWBERRY R nr Soldier Springs 2	APR-JUL	23	33	40	61	47	57	66
CURRENT CK nr Fruitland 2	APR-JUL	8.1	11.6	14.0	61	16.4	19.9	23
STRAWBERRY R nr Duchesne (incl Straw	APR-JUL	40	59	71	59	83	102	121
STARVATION RESV Inflow (w/o Strawber	APR-JUL	23	33	40	60	47	57	67
LAKEFORK R blw Moon Lake 2	APR-JUL	30	42	50	70	58	70	71
YELLOWSTONE R nr Altonah	APR-JUL	25	39	48	73	57	71	66
DUCHESNE R at Myton 2	APR-JUL	37	104	150	55	196	265	275
UINTA R nr Neola	APR-JUL	29	51	66	75	81	103	88
WHITEROCKS R nr Whiterocks	APR-JUL	21	35	45	75	55	69	60
DUCHESNE R nr Randlett 2	APR-JUL	78	112	170	50	270	420	340

### RESERVOIR STORAGE

(1000AF)

### WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
FLAMING GORGE	3749.0	3048.3	2941.6	---	UPPER GREEN RIVER in UTAH	9	97	71
MOON LAKE	49.5	28.3	25.5	29.1	ASHLEY CREEK	2	133	78
RED FLEET	26.0	16.2	13.1	---	BLACK'S FORK RIVER	3	79	64
STEINAKER	33.3	8.1	5.4	19.7	SHEEP CREEK	2	92	65
STARVATION	165.3	109.9	110.7	113.0	DUCHESNE RIVER	12	104	71
STRAWBERRY-ENLARGED	951.4	474.1	344.6	---	LAKE FORK-YELLOWSTONE CRE	5	101	81
					STRAWBERRY RIVER	4	96	49
					UINTAH-WHITEROCKS RIVERS	2	121	99
					UINTAH BASIN & DAGGET SCD	21	101	71

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

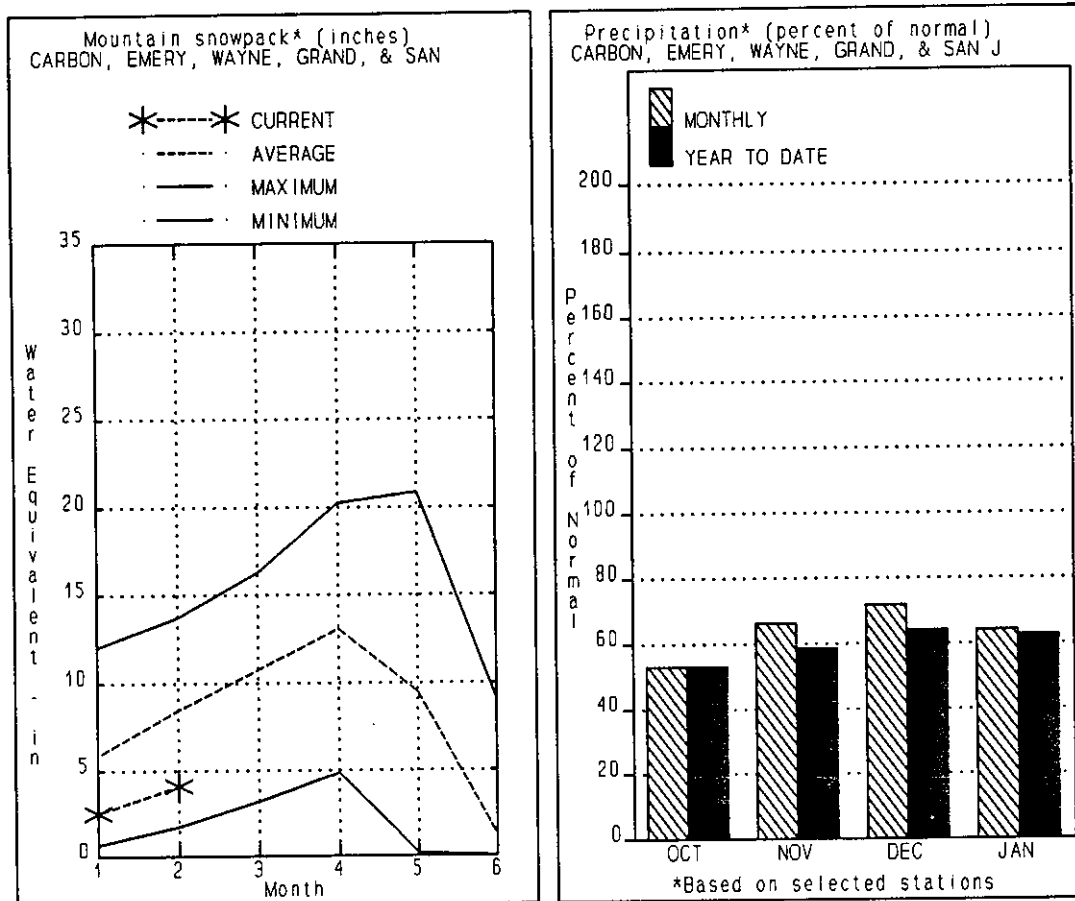
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(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

February 1, 1991



The good news about the snowpack in southeastern Utah is that it is 25% greater than last year compared to average. The bad news is that it only contains one-half the normal February first water content. In order to reach average snow water content by April first the snowpack will have to have a near record increase during the next two months. Only one year in the last thirty has produced an increase of this magnitude. January precipitation at mountain stations was 64% of normal bringing the total for the water year to 63% of average. Normally our sample of reservoirs in this part of the State would be holding 55% of their capacity by the end of January. This year they have only 30% of capacity filled. Most streams are forecast to run about 50% of normal.

# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
GOOSEBERRY CK nr Scofield	APR-JUL	1.1	4.0	6.0	50	8.0	10.9	12.0
SCOFIELD RESV Inflow	APR-JUL	10.0	18.0	24	52	30	38	46
PRICE R nr Heiner 2	APR-JUL	11.0	22	29	49	36	47	59
GREEN R at Green River, UT 2	APR-JUL	755	1380	1800	57	2220	2840	3182
ELECTRIC LAKE Inflow	APR-JUL	3.3	6.1	8.0	53	9.9	12.7	15.1
HUNTINGTON CK nr Huntington 2	APR-JUL	11.0	21	28	51	35	45	55
COTTONWOOD CK nr Orangeville 2	APR-JUL	10.0	17.0	24	51	47	80	47
FERRON CK nr Ferron	APR-JUL	10.0	15.0	22	54	29	40	41
COLORADO R nr Cisco, UT 2	APR-JUL	795	1690	2300	67	2910	3800	3443
MILL CK nr Moab	APR-JUL	2.3	3.1	4.5	82	6.8	10.3	5.5
INDIAN CK nr Monticello	MAR-JUL	1.8	2.9	4.6	55	8.0	12.9	8.3
SEVEN MILE CK nr Fish Lake	APR-JUL	1.2	1.9	3.1	48	5.1	8.1	6.5
MUDDY CK nr Emery	APR-JUL	4.2	6.0	11.0	52	16.0	24	21
LLOYD'S RESV Inflow	MAR-JUL	0.8	1.5	1.9	56	4.4	8.0	3.4
RECAPTURE RESV Inflow	MAR-JUL	1.4	2.2	3.5	57	5.9	9.4	6.1
SAN JUAN R nr Bluff, UT 2	APR-JUL	440	775	1000	92	1230	1560	1091

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
HUNTINGTON NORTH	3.9	1.7	1.9	2.3	PRICE RIVER	3	91	42	
JOE'S VALLEY	61.6	24.6	34.1	43.6	SAN RAFAEL RIVER	7	111	49	
KEN'S LAKE		NO REPORT			MUDDY CREEK	1	104	55	
MILL SITE	16.7	9.7	9.7	3.5	FREMONT RIVER	5	130	45	
SCOFIELD	65.8	7.7	11.7	31.3	LASAL MOUNTAINS	2	221	63	
					BLUE MOUNTAINS	2	175	54	
					WILLOW CREEK - WHITE RIVE	2	152	38	
					CARBON, EMERY, WAYNE, GRA	22	125	48	

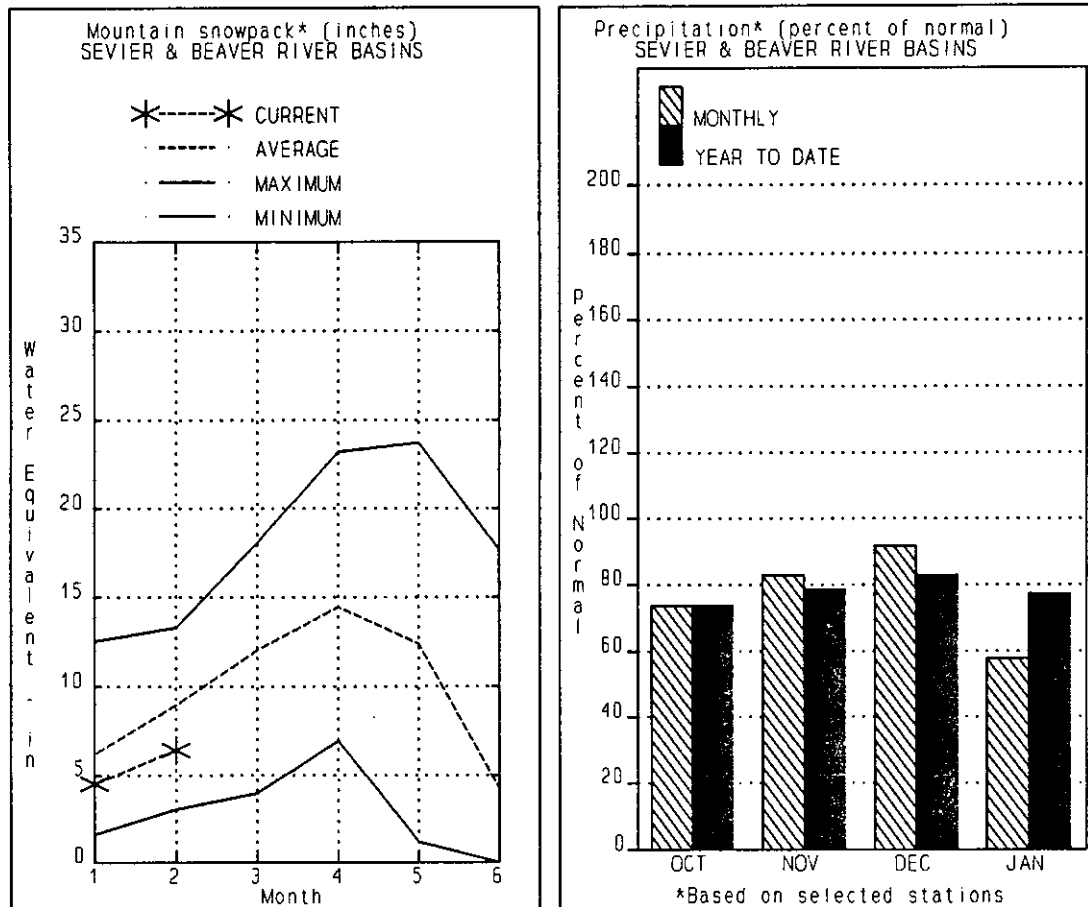
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The average is computed for the 1961-1985 base period.

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- (2) - The value is natural flow - actual flow may be affected by upstream water management.

# SEVIER & BEAVER RIVER BASINS

February 1, 1991



Snow water content on the Sevier River watershed is considerably greater than at the same time last year. Unfortunately, it still has 29% less water content than it should have on the first of February. February and March storms produce enough additional snow water in order to bring the snowpack to average on April first in approximately one out of six years on the Sevier but, given the current weather patterns, this scenario is unlikely. Mountain precipitation now stands at 77% of average for the water year. Reservoir storage is 87% of average and 40% of capacity. Streams are expected to produce much less water than normal again next spring and summer with individual forecasts ranging from 49% to 72% of average across the basin.

# SEVIER & BEAVER RIVER BASINS

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		<----- DRIER ----->		FUTURE CONDITIONS		>----- WETTER ----->		
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	2.0	19.0	31	60	43	60	52
SEVIER near Circleville	APR-JUL			30	68			44
SEVIER near Kingston	APR-JUL	1.0	2.9	18.1	53	33	56	34
ANTIMONY CREEK near Antimony	APR-JUL			5.4	61			8.9
E F SEVIER near Kingston	APR-JUL	2.4	6.9	14.0	58	21	31	24
SEVIER blw Piute Dam	APR-JUL	6.0	10.0	32	57	54	87	56
CLEAR CREEK near Sevier	APR-JUL			13.4	61			22
SIGURD to GUNNISON	APR-JUL	0.0	1.0	24	55	47	81	44
KINGSTON to VERMILLION DAM	APR-JUL			11.2	59			18.9
VERMILLION DAM to GUNNISON	APR-JUN			22	55			40
SALINA CREEK at Salina	APR-JUN			10.6	58			18.2
PLEASANT CREEK near Pleasant	APR-JUL			6.4	56			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			12.2	49			25
SEVIER nr Gunnison	APR-JUL			57	58			99
CHICKEN CREEK near Levan	APR-JUL	0.2	1.2	1.9	54	2.6	3.6	3.5
OAK CREEK near Oak City	APR-JUL	0.0	0.2	0.9	56	1.6	2.7	1.6
CHALK CREEK near Fillmore	APR-JUL	1.6	5.8	10.0	61	14.2	20	16.4
BEAVER RIVER near Beaver	APR-JUL	2.1	9.6	18.0	67	26	39	27
NORTH CREEK near Beaver (combined)	APR-JUL	1.5	3.8	10.5	72	17.2	27	14.6
MINERSVILLE RESERVOIR inflow	APR-JUL	0.8	4.4	10.0	60	15.6	24	16.7

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNNISON	20.3	2.2	3.6	11.7	UPPER SEVIER RIVER (south	10	206	71
MINERSVILLE (RkyFd)	26.0	7.1	8.5	11.2	EAST FORK SEVIER RIVER	4	174	66
OTTER CREEK	52.7	20.4	19.4	27.5	SOUTH FORK SEVIER RIVER	6	227	73
PIUTE	71.8	27.7	47.0	36.9	LOWER SEVIER RIVER (inclu	12	142	70
SEVIER BRIDGE	236.0	106.3	137.2	101.1	BEAVER RIVER	2	232	88
PANQUITCH LAKE	22.3	4.8	8.0	---	SEVIER & BEAVER RIVER BAS	24	165	71

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

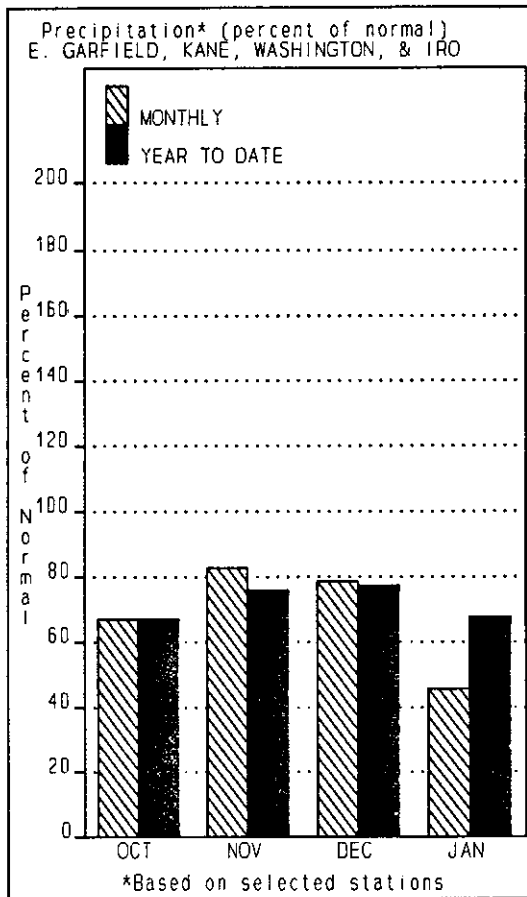
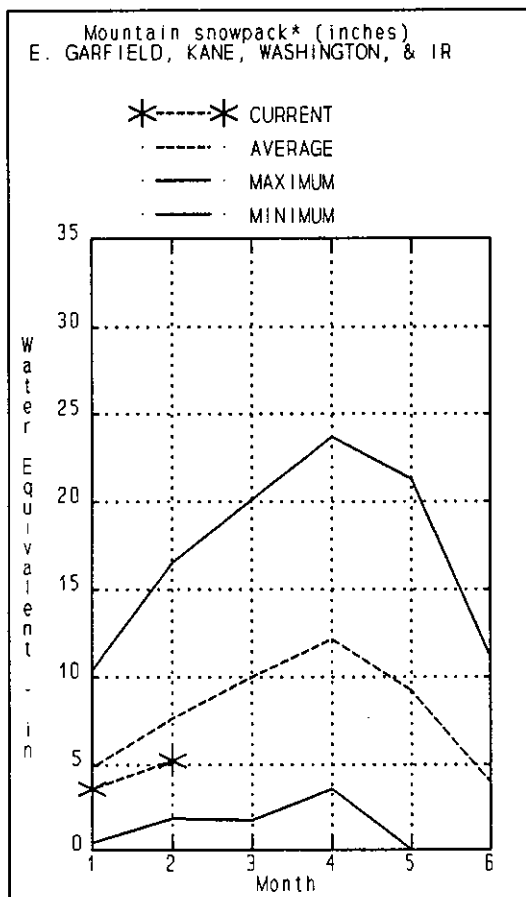
The average is computed for the 1961-1985 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural flow - actual flow may be affected by upstream water management.



# E. GARFIELD, KANE, WASHINGTON, & IRON Co

February 1, 1991



The snowpack in southwestern Utah has deteriorated from last month to 67% of average. This is still 206% of the water content measured last year on February first but dims the hope of achieving normal levels by April first. January precipitation at mountain stations was the poorest in the State at only 46% of normal bringing the total for the water year down to 68%. The Enterprise Reservoirs contain 5% of combined capacity, Gunlock is 35% full and Quail Creek is one-half full. Meager January rainfall has resulted in reduced streamflow forecasts from levels forecast last month. Forecasts now range from 57% to 64% of normal for the upcoming spring and summer.

# E. GARFIELD, KANE, WASHINGTON, & IRON Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90%	70%	50% (MOST PROBABLE)		30%	10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
COAL CK nr Cedar City	APR-JUL	4.2	8.5	11.4	57	14.3	18.6	20
LAKE POWELL Inflow	APR-JUL	2710	4070	5000	62	5930	7290	8086
VIRGIN R nr Hurricane	APR-JUN	11.0	29	42	62	55	73	68
SANTA CLARA R nr Pine Valley	APR-JUN	0.9	2.3	3.2	64	4.1	5.5	5.0

## RESERVOIR STORAGE

(1000AF)

## WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNLOCK	10.4	3.6	5.6	---	VIRGIN RIVER	5	230	70
LAKE POWELL	25002.0	15438.0	18514.0	---	PAROWAN	4	195	67
QUAIL CREEK	40.0	20.0	---	---	ENTERPRISE TO NEW HARMONY	2	184	58
UPPER ENTERPRISE	10.0	0.4	0.4	---	COAL CREEK	3	192	69
LOWER ENTERPRISE	2.6	0.2	0.4	---	ESCALANTE RIVER	2	214	64
					E. GARFIELD, KANE, WASHIN	14	206	67

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural flow - actual flow may be affected by upstream water management.

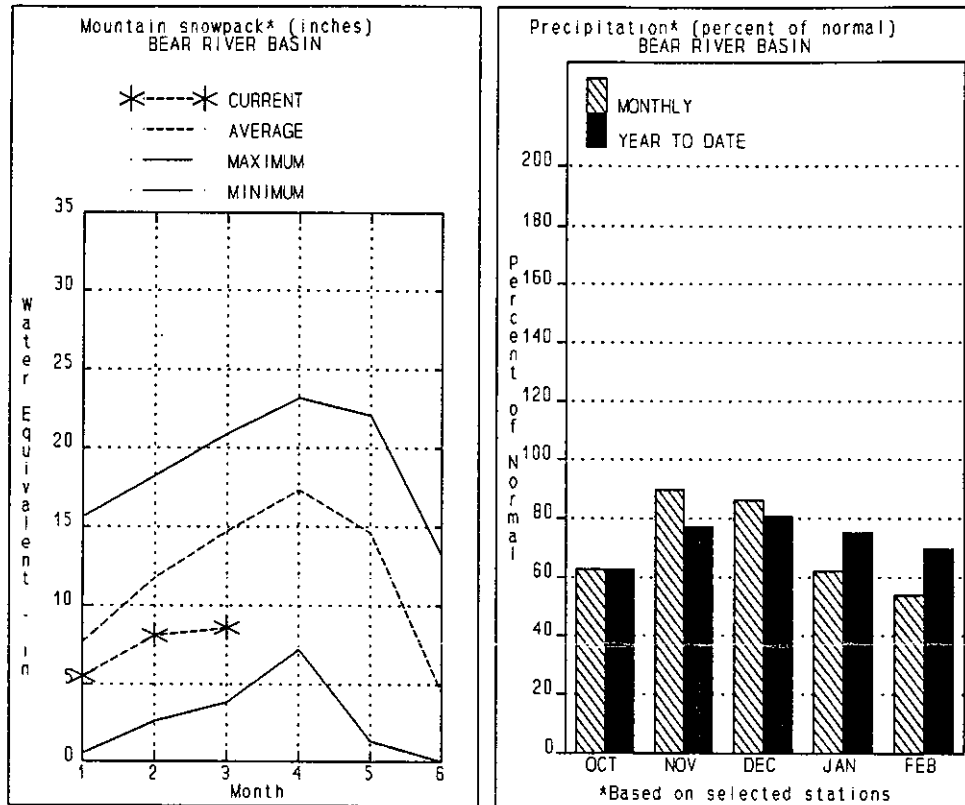
SNOW COURSE DATA  
FOR THE STATE OF UTAH  
As of FEBRUARY 1, 1990

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ALTA CENTRAL	8800	1/31	69	21.6	21.5	26.0	DESERET PEAK SNOTEL	9250	01/28	-	5.35	7.9	17.5
ASHLEY TWIN LAKES	10500				-	10.5	DILL'S CAMP SNOTEL	9200	01/28	-	4.85	4.6	8.7
BEAVER DAMS	8000	01/28	-	5.0E	3.2	7.7	DIRTY HEAD	5400				-	-
BEAVER DAMS SNOTEL	8000	01/28	-	4.7S	3.3	7.7	DONKEY RESERVOIR SNO	9800	01/28	-	2.9S	1.7	4.8
BEAVER DIVIDE SNOTEL	8280	01/28	-	4.8S	6.1	9.9	DRY BREAD POND	8350	01/28	-	7.9E	8.5	12.2
BEN LOMOND PK SNOTEL	8000	01/28	-	16.5S	14.2	25.5	DRY BREAD POND SNOTEL	8350	01/28	-	8.1S	8.3	12.9
BEN LOMOND TR SNOTEL	6000	01/28	-	9.7S	6.7	14.6	EAST SHINGLE LAKE	9800				-	18.4
BEVAN'S CABIN	6450	01/28	-	3.1E	-	5.5	EAST WILLOW CREEK SN	8250	01/28	-	4.2S	2.9	7.9
BIG FLAT SNOTEL	10290	01/28	-	8.2S	3.7	9.5	FARMINGTON CANYON L.	6950	01/28	-	11.8E	10.6	14.9
BIRCH CROSSING	8100	01/28	-	3.1E	1.7	4.9	FARMINGTON CN SNOTEL	8000	01/28	-	14.4S	13.1	19.1
BLACK FLAT-U.M. CK S	9400	01/28	-	2.3S	2.7	7.3	FARNSWORTH LAKE	9600	01/28	-	10.9E	6.8	11.9
BLACK'S FORK GS-EF	9340	01/28	-	4.1E	5.4	6.0	FARNSWORTH LK SNOTEL	9600	01/28	-	10.3S	6.2	11.7
BLACK'S FORK JUNCTN	8930	01/28	-	3.6E	5.2	6.4	FISH LAKE	8700	01/28	-	1.8E	2.2	5.6
BOX CREEK SNOTEL	9300	01/28	-	5.2S	3.6	8.2	FIVE POINTS LAKE SNO	10920	01/28	-	6.8S	9.0	7.9
BRIAN HEAD	10000	01/28	-	9.0E	4.7	13.0	FRANCES FLATS	6700	2/04	38	10.6	11.1	15.9
BRIGHTON CABIN	8700	1/31	46	13.7	13.6	17.6	G.B.R.C. HEADQUARTER	8700	01/28	-	6.8E	5.9	10.4
BRIGHTON SNOTEL	8750	01/28	-	12.1S	14.9	18.7	G.B.R.C. MEADOWS	10000	01/28	-	6.8E	6.7	14.4
BROWN DUCK SNOTEL	10600	01/28	-	7.4S	7.9	12.4	GARDEN CITY SUMMIT	7600	01/28	-	7.9E	5.2	11.8
BRYCE CANYON	8000	1/30	12	2.5	1.7	3.4	GEORGE CREEK	8840				-	14.2
BUCK FLAT SNOTEL	9800	01/28	-	5.1S	5.0	11.4	GOOSEBERRY R.S.	8400	01/28	-	4.8E	4.1	7.4
BUCK PASTURE	9700				-	11.8	GOOSEBERRY R.S. SNOT	7900	01/28	-	5.1S	3.7	7.6
BUCKBOARD FLAT	9000	01/28	-	4.6E	3.5	8.6	HARDSGRABBLE	6700	01/28	-	9.4E	8.4	13.5
BUG LAKE SNOTEL	7950	01/28	-	7.8S	8.0	13.4	HARRIS FLAT	7700	01/28	-	4.5E	1.2	5.9
BURT'S-MILLER RANCH	7900	01/28	-	2.1E	2.7	3.7	HARRIS FLAT SNOTEL	7700	01/28	-	3.8S	0.8	5.3
CAMP JACKSON	8600	01/28	-	5.0E	2.0	9.3	HAYDEN FORK	9400	01/28	-	7.3E	8.1	9.8
CAMP JACKSON SNOTEL	8600	01/28	-	4.8S	2.6	9.3	HAYDEN FORK SNOTEL	9100	01/28	-	7.7S	8.2	10.9
CASTLE VALLEY	9580	01/28	-	5.1E	2.0	8.1	HENRY'S FORK	10000				-	9.5
CASTLE VALLEY SNOTEL	9580	01/28	-	5.0S	2.4	8.4	HEWINTA SNOTEL	9500	01/28	-	5.2S	5.2	6.1
CHALK CK #1 SNOTEL	9100	01/28	-	13.0S	10.1	14.8	HICKERSON PARK SNOTE	9100	01/28	-	3.2S	2.6	5.0
CHALK CK #2 SNOTEL	8200	01/28	-	8.9S	8.0	9.6	HIDDEN SPRINGS	5500	1/31	20	5.2	2.9	6.3
CHALK CREEK #3	7500	01/28	-	5.3E	3.4	5.5	HOBBLE CREEK SUMMIT	7420	01/28	-	5.4E	5.4	10.2
CHEPETA SNOTEL	10300	01/28	-	8.9S	8.0	7.6	HOLE-IN-ROCK SNOTEL	9150	01/28	-	3.4S	2.9	4.0
CITY CREEK	7500	2/04	47	14.4	14.6	19.2	HORSE RIDGE SNOTEL	8260	01/28	-	12.6S	9.4	16.6
CLEAR CK RIDG #1 SNT	9200	01/28	-	7.7S	7.6	13.6	HUNTINGTON-HORSESHOE	9800	01/28	-	10.8E	7.8	16.1
CLEAR CK RIDG #2 SNT	8000	01/28	-	5.6S	5.0	9.8	INDIAN CANYON SNOTEL	9100	01/28	-	3.3S	3.5	7.8
CLEAR CREEK MEADOWS	9420	2/01	-	11.7E	13.5	15.2	JOHNSON VALLEY	8850	01/28	-	1.7E	1.9	5.0
CLEAR CREEK RIDGE #3	6600	01/28	-	3.4E	3.2	5.7	KILFOIL CREEK	7300	01/28	-	7.8E	7.8	9.8
COLD WATER SPRINGS	6030				-	-	KILLION CANYON	6300	1/31	27	7.6	4.4	8.7
CORRAL	8200				-	-	KIMBERLY MINE SNOTEL	9300	01/28	-	8.3S	4.7	8.8
CURRENT CREEK SNOTEL	8000	01/28	-	3.8S	4.1	8.1	KING'S CABIN SNOTEL	8720	01/28	-	5.4S	4.2	7.6
DANIELS-STRABERRY S	8000	01/28	-	5.7S	6.4	11.4	KLONDIKE NARROWS	7400	01/28	-	9.2E	6.5	13.4
DESERET PEAK	9250	01/28	-	5.6E	-	17.5	KOLOB SNOTEL	9250	01/28	-	9.5S	4.2	13.4
DESERET PEAK AM	9250				-	17.5	LAKEFORK #1 SNOTEL	10100	01/28	-	7.5S	5.5	8.0

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
LAKEFORK BASIN SNOTE	10900	01/28	-	8.6S	9.7	10.2	REDDEN MINE LOWER	8500	01/28	-	6.8E	8.6	11.5
LAKEFORK MOUNTAIN #3	8400	01/28	-	4.5E	2.4	4.6	REES'S FLAT	7300	01/28	-	5.0E	5.8	8.8
LAMBS CANYON	7400	01/30	38	9.6	8.6	11.3	ROCK CREEK SNOTE	7900	01/28	-	4.3S	3.4	5.9
LASAL MOUNTAIN LOWER	8800	01/28	-	4.2E	1.9	6.5	ROCKY BASIN-SETTLEMT	8900	01/28	-	10.6E	-	18.9
LASAL MOUNTAIN SNOTE	9850	01/28	-	5.3S	2.4	8.5	ROCKY BN-SETTLEMT SN	8900	01/28	-	8.4S	9.6	15.7
LILY LAKE SNOTE	9050	01/28	-	5.7S	5.9	10.3	SEELEY CREEK SNOTE	10000	01/28	-	4.6S	3.6	10.2
LITTLE BEAR LOWER	6000	01/28	-	4.6E	-	7.9	SINGLE MILL	6200	01/28	-	5.9E	3.2	6.4
LITTLE BEAR SNOTE	6550	01/28	-	5.7S	6.1	10.0	SILVER LAKE(BRIGHT-)	8750	01/29	42	13.2	13.6	16.1
LITTLE GRASSY CREEK	6100	01/28	-	2.1E	1.3	3.6	SMITH MOREHOUSE SNTL	7600	01/28	-	6.3S	7.1	9.3
LITTLE GRASSY SNOTE	6100	01/28	-	1.9S	1.1	3.6	SNOWBIRD GAD VALLEY	9700	1/28	61	17.4	22.7	24.6
LONG FLAT SNOTE	8000	01/28	-	3.8S	1.9	6.5	SNOWBIRD SNOTE	9700	01/28	-	15.9S	17.9	-
LONG VALLEY JCT.	7500	01/28	-	2.8E	1.1	4.3	SPIRIT LAKE	10300	01/28	-	5.1E	6.4	7.8
LONG VALLEY JCT. SNT	7500	01/28	-	2.7S	1.1	4.7	SQUAW SPRINGS	9300	01/28	-	3.1E	1.8	4.7
LOOKOUT PEAK SNOTE	8200	01/28	-	10.6S	11.1	15.9	STEEL CREEK PARK SNO	10100	01/28	-	6.6S	7.5	10.0
LOST CREEK RESERVOIR	6130	01/28	-	3.3E	3.0	4.1	STILLWATER CAMP	8550	01/28	-	5.2E	5.6	7.0
MAMMOTH-COTTONWOOD SNT	8800	01/28	-	8.5S	6.4	13.7	STRAWBERRY DIVIDE SN	8400	01/28	-	6.8S	6.5	13.0
MAMMOTH-COTTONWOOD	8800	01/28	-	9.4E	6.3	14.0	STUART R.S.	7950	01/28	-	2.7E	2.6	6.2
MERCHANT VALLEY SNOT	8750	01/28	-	6.4S	2.6	7.1	SUSC RANCH	8200	01/28	-	4.2E	2.8	5.8
MIDDLE CANYON	7000	01/28	-	4.9E	-	8.7	TALL POLES	8800	01/28	-	6.3E	3.2	9.1
MIDWAY VALLEY	9800	01/28	-	9.2E	4.2	13.4	THAYNES CANYON SNOTL	9200	01/28	-	9.1S	10.9	14.0
MIDWAY VALLEY SNOTE	9800	01/28	-	8.9S	5.8	13.6	THISTLE FLAT	8500	01/28	-	-	-	9.9
MILL CREEK	6950	1/30	42	10.9	11.1	12.3	TIMBERLINE	9100	01/28	-	-	-	-
MILL-D NORTH SNOTE	8960	01/28	-	11.4S	10.5	16.4	TIMPANOGOS DIVIDE SN	8140	01/28	-	9.0S	12.7	16.2
MILL-D SOUTH FORK	7400	1/29	44	10.8	11.8	13.0	TONY GROVE LK SNOTE	8400	01/28	-	16.1S	14.9	25.4
MINING FORK SNOTE	8000	01/28	-	5.7S	6.4	16.9	TONY GROVE R.S.	6250	01/28	-	6.0E	5.4	8.9
MONTE CRISTO R.S.	8960	01/28	-	13.2E	10.8	16.1	TRIAL LAKE	9960	01/28	-	9.2E	9.7	16.1
MONTE CRISTO SNOTE	8960	01/28	-	14.2S	9.3	18.3	TRIAL LAKE SNOTE	9960	01/28	-	9.0S	9.7	16.3
MOSBY MTN. SNOTE	9500	01/28	-	5.8S	4.1	7.2	TROUT CREEK SNOTE	9400	01/28	-	5.9S	4.3	6.9
MT. BALDY R.S.	9500	01/28	-	11.2E	6.4	15.3	UPPER JOES VALLEY	8900	01/28	-	3.1E	3.7	7.0
MUD CREEK #2	8600	01/28	-	6.2E	3.7	9.2	UPPER MILL CREEK	8300	01/28	-	-	-	-
OAK CREEK	7760	01/28	-	3.9E	4.0	7.9	VERNON CREEK SNOTE	7500	01/28	-	3.9S	1.9	8.2
ONE MILE SUMMIT	7330	01/28	-	-	-	3.8	VIPONT	7670	01/28	-	-	-	10.1
OTTER LAKE	9600	01/28	-	2.6E	1.1	4.1	WEBSTER FLAT SNOTE	9200	01/28	-	6.9S	3.6	10.1
PANQUITCH LAKE	8200	01/28	-	9.5S	7.2	13.4	WHITE RIVER #1 SNOTE	8550	01/28	-	2.4S	3.8	9.0
PARLEY'S CANYON SNOT	7500	01/28	-	10.7	8.2	12.4	WHITE RIVER #3	7400	01/28	-	1.8E	3.9	6.3
PARLEY'S CANYON SUM.	7500	01/30	41	7.0E	9.2	12.2	WIDTSONE #3 SNOTE	9500	01/28	-	5.0S	2.0	7.6
PAYSON R.S.	8050	01/28	-	7.9S	6.9	14.4	WRIGLEY CREEK	9000	01/28	-	3.4E	3.1	7.1
PAYSON R.S. SNOTE	8050	01/28	-	7.6S	4.0	11.0	YANKEE RESERVOIR	8700	01/28	-	3.8E	1.8	6.1
PICKLE KEG SNOTE	9600	01/28	-	7.4E	3.5	10.2	NOTE:						
PICKLE KEG SPRING	9600	01/28	-	10.6E	5.7	11.5	The S flag following Water Content for SNOTE sites indicates telemetered						
PINE CREEK	8800	01/28	-	11.5S	7.9	13.1	data, the depth reading preceding S flagged data was measured around the						
PINE CREEK SNOTE	8800	01/28	-	5.5S	5.8	13.3	snow pillows at the time of the ground survey and may not be the same date as						
RED PINE RIDGE SNOTE	9200	01/28	-	-	-	-	the telemetered value.						

# BEAR RIVER BASIN

March 1, 1991



Snow water equivalent in the Bear River watershed snowpack has dropped to 58% of normal during February. Much heavier than normal snowfalls will be needed during the next month if we are to realize an average snow year in 1991. Precipitation at SNOTEL stations was 54% of normal in February resulting in 70% of the normal total for the water year (October through February). Reservoir contents ranges from 80% of capacity in Hyrum Reservoir to a usable storage in Bear Lake of only 51% of average. Forecasts of streamflow for next April through July are reduced from last month and now range from 40% to 60% of average.

## BEAR RIVER BASIN

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
BEAR RIVER nr Ut-Wy Stateline	APR-JUL	42	59	70	60	82	98	116
BEAR near Woodruff (2)	APR-JUL	12.0	41	82	55	123	184	150
WOODRUFF CREEK near Woodruff	APR-JUL	4.1	7.6	10.0	58	12.4	15.9	17.3
BIG CREEK near Randolph	APR-JUL	0.3	1.3	2.8	53	4.3	6.4	5.3
BEAR near Randolph	APR-JUL	8.0	13.0	50	40	87	143	126
SMITHS FORK near Border, WY	APR-SEP	36	54	66	57	78	96	115
THOMAS FORK near Wy-Id Stateline	APR-SEP	8.0	16.0	21	57	26	34	37
BEAR RIVER near Harer	APR-SEP	19.0	96	170	55	245	355	310
BEAR RIVER blw Stewart Dam (2)	APR-SEP	45	107	150	50	193	255	298
CUB RIVER near Preston	APR-JUL	10.0	21	28	60	35	46	47
LITTLE BEAR RIVER near Paradise	APR-JUL	0.0	14.0	23	50	32	46	46
LOGAN RIVER near Logan	APR-JUL	25	52	70	57	88	115	122
BLACKSMITH FORK near Hyrum	APR-JUL	5.0	21	32	56	43	60	57

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
BEAR LAKE	1421.0	503.9	739.3	992.5	BEAR RIVER, UPPER (above	12	77	60
HYRUM	15.3	12.3	4.7	10.8	BEAR RIVER, LOWER (below	22	89	57
PORCUPINE	11.3	4.0	4.8	3.7	LOGAN RIVER	5	90	59
WOODRUFF NARROWS	55.8	9.0	---	---	BEAR RIVER DRAINAGE	34	84	58
WOODRUFF CREEK	4.0	1.9	---	---	RAFT RIVER	3	94	57
					BEAR RIVER BASIN	37	85	58

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

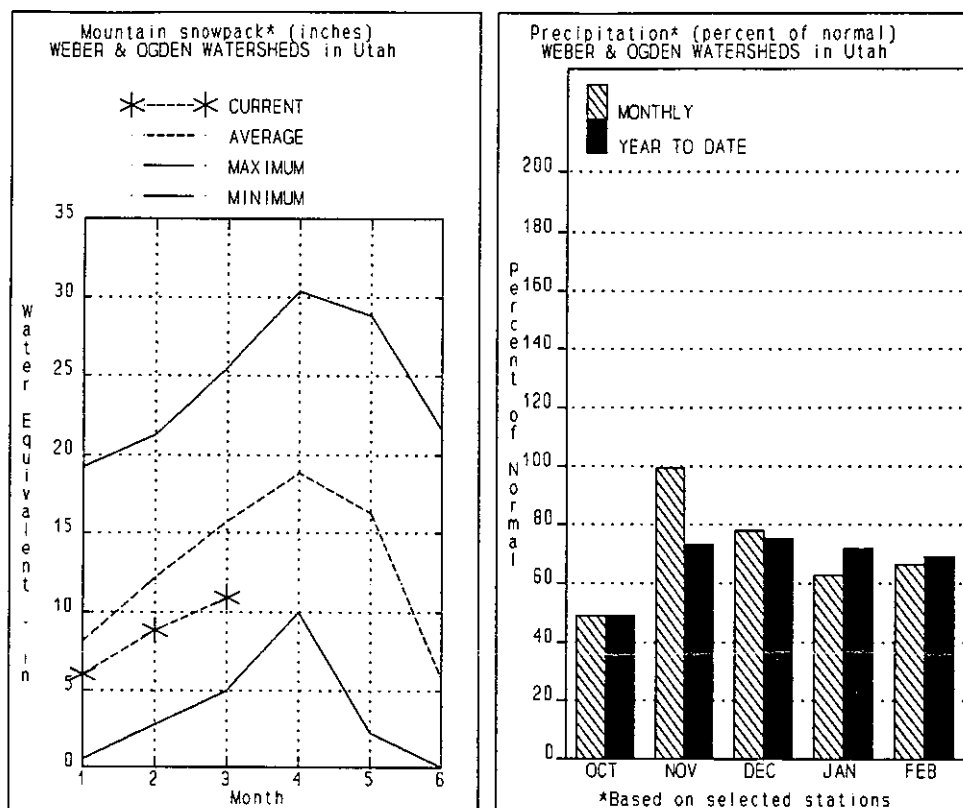
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

# WEBER & OGDEN WATERSHEDS in Utah

March 1, 1991



The water content in the Weber River watershed snowpack as estimated by the SNOTEL system is 69% of the March first average. February produced less than normal increase to the snowpack. March storms will have to yield much greater than normal additional water content than normal to the snowpack if we are to reach average by the first of April. Precipitation at mountain stations since the beginning of the water year now stands at 69% of average. Reservoirs in the Weber River basin currently hold only 47% of their combined capacity. Water supply forecasts for the upcoming spring and summer are slightly less than last month ranging from 53% to 66% of average.

# **WEBER & OGDEN WATERSHEDS in Utah**

## **STREAMFLOW FORECASTS**

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		<----- DRIER ----->		CHANCE OF EXCEEDING *		>----- WETTER ----->		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
<hr/>								
SMITH AND MOREHOUSE CREEK near Oakle	APR-JUN	10.7	16.2	20	66	24	29	30
WEBER RIVER near Oakley	APR-JUL	44	63	75	60	87	106	125
ROCKPORT RESERVOIR inflow	APR-JUL	33	58	75	55	92	117	136
<hr/>								
CHALK CREEK at Coalville, Ut	APR-JUL	5.0	18.0	27	60	36	49	45
WEBER RIVER near Coalville, Ut	APR-JUL	40	67	85	60	103	130	142
ECHO RESERVOIR Inflow	APR-JUL	29	71	100	57	129	171	174
<hr/>								
LOST CREEK Res Inflow	APR-JUL	0.4	5.5	9.7	53	13.9	20	18.3
EAST CANYON CREEK near Morgan	APR-JUL	3.3	11.5	17.0	55	23	31	31
HARDSCRABBLE CREEK near Porterville	APR-JUN	0.6	6.2	11.0	60	15.8	23	18.4
<hr/>								
WEBER RIVER at Gateway	APR-JUL	141	182	210	56	240	280	374
S FORK OGDEN RIVER nr Huntsville	APR-JUL	20	31	39	59	47	58	66
PINEVIEW RESERVOIR Inflow	APR-JUL	40	70	90	57	110	140	159
<hr/>								
WHEELER CREEK near Huntsville	APR-JUL	2.3	3.4	4.2	65	5.0	6.1	6.5
FARMINGTON CREEK near Farmington	APR-JUL	0.1	3.3	5.4	66	7.5	10.7	8.2

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			-----		
							LAST YR.	AVERAGE	
CAUSEY	7.1	2.1	2.1	2.3	OGDEN RIVER	4	98	63	
EAST CANYON	48.1	27.7	34.4	27.7	WEBER RIVER	15	88	71	
ECHO	73.9	39.0	47.6	49.5	WEBER & OGDEN WATERSHEDS	19	90	69	
LOST CREEK	22.5	11.4	14.8	13.4					
PINEVIEW	110.1	35.8	64.6	48.7					
ROCKPORT	60.9	28.8	37.0	30.2					
WILLARD BAY	185.0	93.3	130.7	116.4					

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

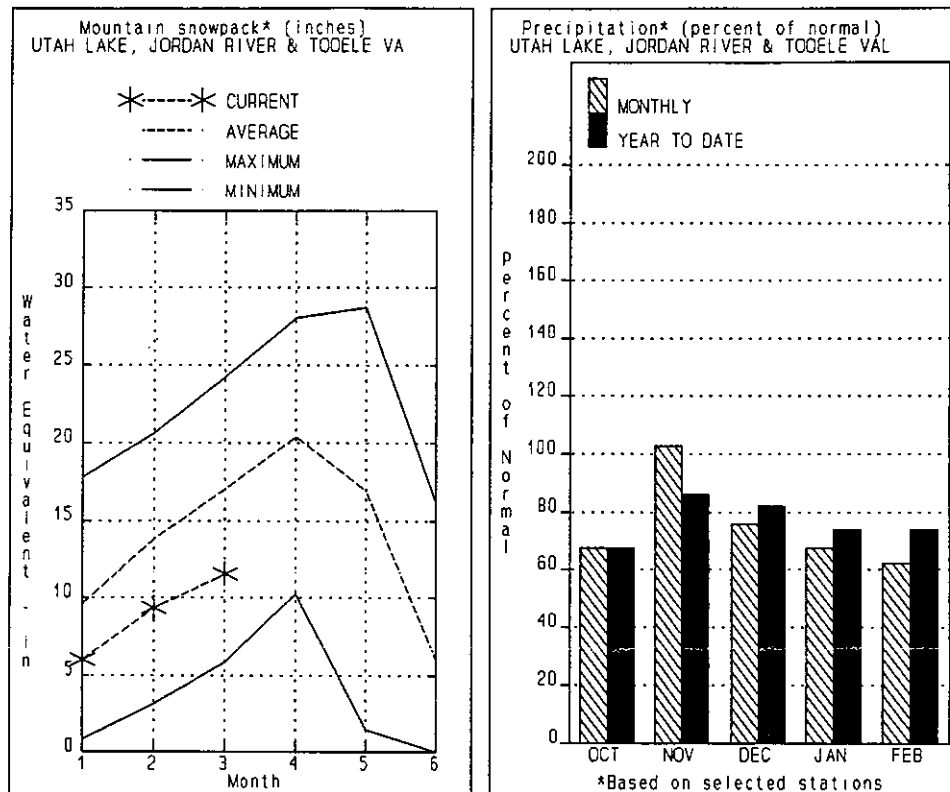
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(2) - The value is natural flow - actual flow may be affected by upstream water management.



# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

March 1, 1991



The snowpack on the watersheds draining into Utah Lake, the Jordan River and Tooele Valley contains 68% of the normal water content for March first. March storms will have to produce 159% more water than usual to bring the snowpack to average by April first. Mountain precipitation was 62% of normal during February bringing the water year total to 74%. Utah Lake contains only 52% of its usable capacity. Forecasts of streamflow for next April through July are down from last month and now range from 39% to 62% of average.

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SALT CREEK near Nephi	APR-JUL	0.8	2.0	7.6	56	13.2	22	13.5
PAYSON CREEK near Payson	APR-JUL			4.1	56			7.3
SPANISH FORK near Castilla	APR-JUL			43	54			80
HOBBLE CREEK near Springville	APR-JUL			12.1	52			23
PROVO near Hailstone	APR-JUL	29	52	68	60	84	107	113
PROVO below Deer Creek Dam	APR-JUL	32	61	80	60	99	128	133
AMERICAN FORK near American Fk.	APR-JUL	14.0	18.0	21	62	24	28	34
UTAH LAKE inflow	APR-JUL	74	137	180	61	225	285	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	17.0	22	25	61	28	33	41
BIG COTTONWOOD CRK near SLC	APR-JUL	17.0	21	24	62	27	31	39
PARLEY'S CREEK near SLC	APR-JUL	3.1	6.7	9.2	54	11.7	15.3	17.0
MILL CREEK near SLC	APR-JUL	0.8	2.5	3.6	52	4.7	6.4	6.9
EMIGRATION CREEK near SLC	APR-JUL			1.9	41			4.6
CITY CREEK near SLC	APR-JUL	1.1	2.5	3.5	39	4.5	5.9	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.3	0.7	58	1.1	1.6	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.2	0.7	1.4	61	2.1	3.1	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.2	0.7	1.6	53	2.5	3.8	3.0

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	107.7	108.4	95.5	PROVO RIVER & UTAH LAKE	9	66	56
GRANTSVILLE	3.3	1.3	1.7	---	PROVO RIVER	4	64	52
SETTLEMENT CREEK	1.0	0.7	0.8	0.5	JORDAN RIVER & GREAT SALT	15	88	75
STRAWBERRY-ENLARGED	951.4	470.8	432.4	---	TOOELE VALLEY WATERSHEDS	5	85	60
UTAH LAKE	855.5	448.2	581.6	689.4	UTAH LAKE, JORDAN RIVER &	29	82	68
VERNON CREEK	0.6	0.4	0.5	0.5				

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

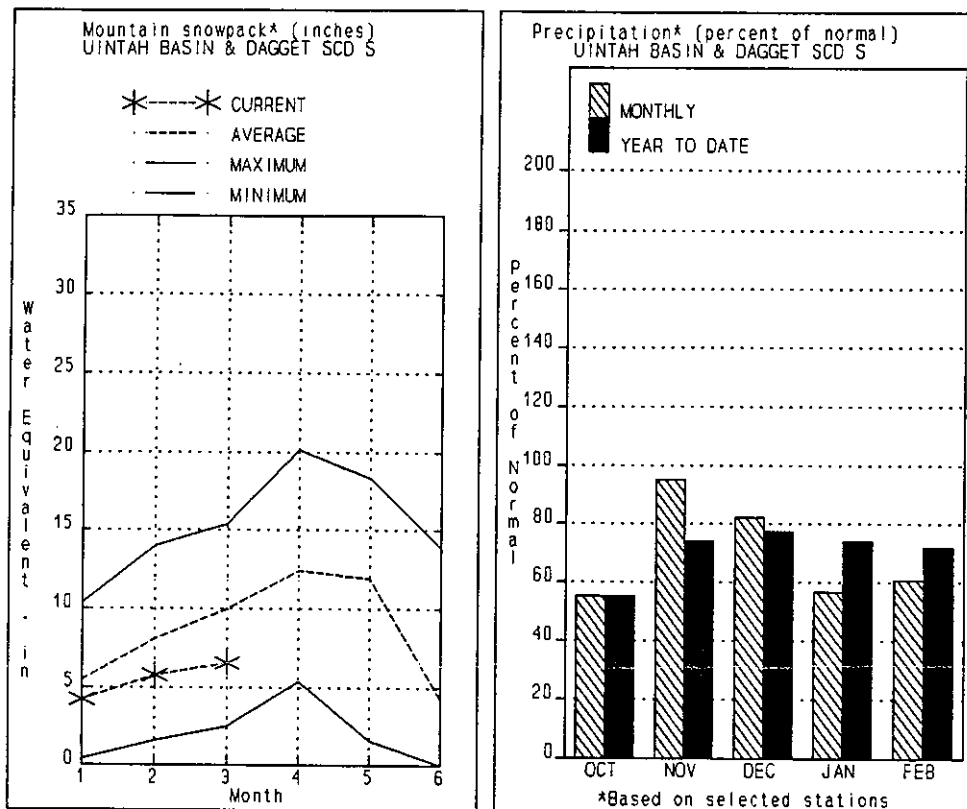
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# UINTAH BASIN & DAGGET SCD'S

March 1, 1991



Snow water equivalent in the snowpack on the Uintas is 66% of the March first average--22% less than last year. February storms produced less than average increase in water content. The next month will have to yield near twice the usual snow water to bring the water content to normal by April first. Mountain precipitation for the water year is 72% of average. Reservoir storage is at 64% of capacity. April through July streamflow forecasts range from 41% of average on the Duchesne near Randlett to 67% on Ashley Creek near Vernal.

# UINTAH BASIN & DAGGET SCD'S

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
MEEKS CABIN RESV Inflow	APR-JUL	29	47	60	63	73	91	96
STATE LINE RESV Inflow	APR-JUL	10.2	16.0	20	67	24	30	30
HENRY'S FORK nr Manila	APR-JUL	11.0	21	27	60	33	43	45
FLAMING GORGE RESV Inflow 2	APR-JUL	390	575	700	55	825	1010	1267
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	4.3	9.5	13.0	65	16.5	22	19.9
ASHLEY CK nr Vernal 2	APR-JUL	23	30	35	67	40	47	52
WF DUCHESNE R nr Hanna	APR-JUL	9.2	12.6	15.0	54	17.4	21	28
DUCHESNE R nr Tabiona	APR-JUL	45	56	64	58	72	83	110
UPPER STILLWATER RESV Inflow	APR-JUL	30	43	52	63	61	74	82
ROCK CK nr Mountain Home	APR-JUL	33	49	60	63	71	87	95
DUCHESNE R abv Knight Diversion	APR-JUL	76	98	114	60	130	153	190
STRAWBERRY R nr Soldier Springs 2	APR-JUL	24	32	38	62	44	52	61
CURRENT CK nr Fruitland 2	APR-JUL	6.3	9.1	11.0	48	12.9	15.7	23
STRAWBERRY R nr Duchesne (incl Straw	APR-JUL	41	55	65	54	75	89	121
STARVATION RESV Inflow (w/o Strawber	APR-JUL	24	32	37	55	42	50	67
LAKEFORK R blw Moon Lake 2	APR-JUL	29	39	46	65	53	63	71
YELLOWSTONE R nr Altonah	APR-JUL	20	35	44	67	54	68	66
DUCHESNE R at Myton 2	APR-JUL	35	91	130	47	169	225	275
UINTA R nr Neola	APR-JUL	26	48	62	70	77	98	88
WHITEROCKS R nr Whiterocks	APR-JUL	16.0	30	40	67	50	64	60
DUCHESNE R nr Randlett 2	APR-JUL	54	88	140	41	235	380	340

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
FLAMING GORGE	3749.0	3060.1	2946.5	---	UPPER GREEN RIVER in UTAH	12	84	70
MOON LAKE	49.5	29.5	13.4	30.5	ASHLEY CREEK	2	86	72
RED FLEET	26.0	16.7	13.8	---	BLACK'S FORK RIVER	3	82	68
STEINAKER	33.3	9.4	6.7	21.1	SHEEP CREEK	2	100	79
STARVATION	165.3	120.7	123.8	112.1	DUCHESNE RIVER	12	72	63
STRAWBERRY-ENLARGED	951.4	470.8	432.4	---	LAKE FORK-YELLOWSTONE CRE	5	73	72
					STRAWBERRY RIVER	4	61	45
					UINTAH-WHITEROCKS RIVERS	2	94	82
					UINTAH BASIN & DAGGET SCD	24	78	66

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

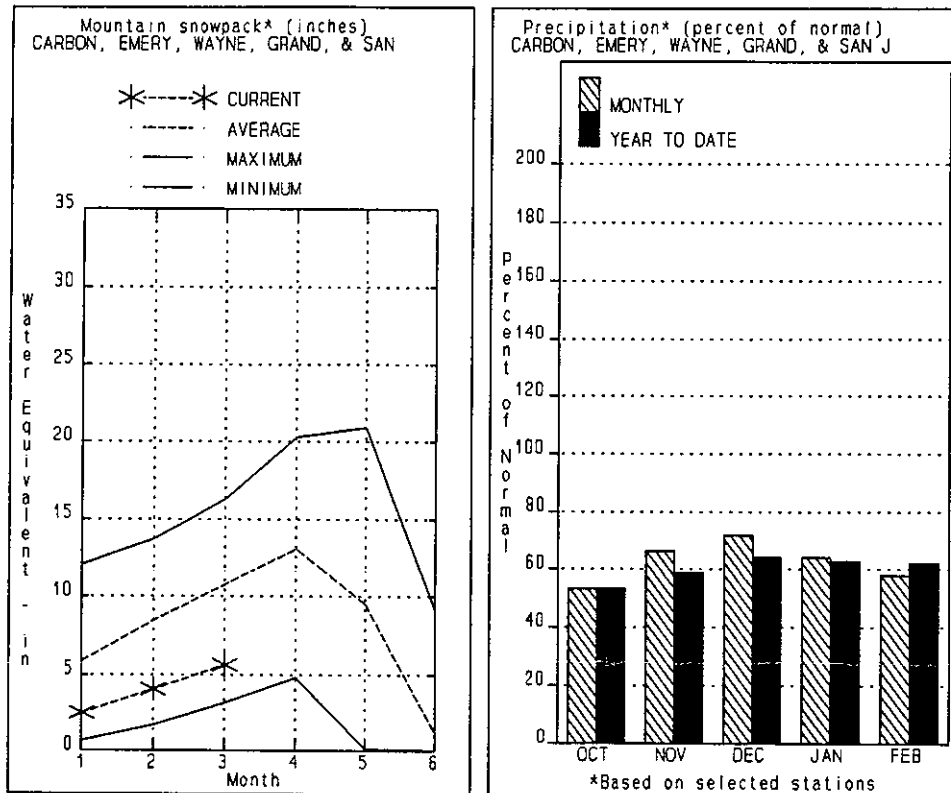
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# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

March 1, 1991



The good news about the snowpack in southeastern Utah is that in the Blue and LaSal mountains it is close to twice of last years March 1st values. The bad news is that the snowpack over this region of Utah contains only 52% of the normal March first water content. In order to reach average snow water content by April first the snowpack will have to have much above normal increase during the next month. March precipitation at mountain stations was 58% of normal bringing the total for the water year to 62% of average. Normally our sample of reservoirs in this part of the State would be holding 57% of their capacity by the end of February. This year they have only 32% of capacity filled. Most streams are forecast to run about 50% of normal.

# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		<----- DRIER ----->		CHANCE OF EXCEEDING *		>----- WETTER ----->		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
GOOSEBERRY CK nr Scofield	APR-JUL	1.6	4.0	5.6	47	7.2	9.6	12.0
SCOFIELD RESV Inflow	APR-JUL	11.0	18.0	22	48	26	33	46
PRICE R nr Heiner 2	APR-JUL	12.0	20	26	44	32	40	59
GREEN R at Green River, UT 2	APR-JUL	745	1260	1600	50	1950	2450	3182
ELECTRIC LAKE Inflow	APR-JUL	4.0	6.1	7.5	50	8.9	11.0	15.1
HUNTINGTON CK nr Huntington 2	APR-JUL	13.0	21	26	47	31	39	55
COTTONWOOD CK nr Orangeville 2	APR-JUL	9.0	15.0	22	38	42	71	58
FERRON CK nr Ferron	APR-JUL	8.8	12.9	20	49	27	38	41
COLORADO R nr Cisco, UT 2	APR-JUL	885	1610	2100	61	2590	3310	3443
MILL CK nr Moab	APR-JUL	1.8	2.9	4.5	82	6.1	8.4	5.5
INDIAN CK nr Monticello	MAR-JUL	0.6	1.6	4.6	55	7.6	11.9	8.3
SEVEN MILE CK nr Fish Lake	APR-JUL	1.2	1.9	3.1	48	5.2	8.2	6.5
MUDDY CK nr Emery	APR-JUL	3.6	4.5	10.0	48	15.5	24	21
LLOYD'S RESV Inflow	MAR-JUL	0.8	1.4	1.9	56	4.0	7.1	3.4
RECAPTURE RESV Inflow	MAR-JUL	1.4	2.2	3.5	57	5.6	8.8	6.1
SAN JUAN R nr Bluff, UT 2	APR-JUL	435	710	900	82	1090	1370	1091

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
HUNTINGTON NORTH	3.9	3.0	2.7	3.0	PRICE RIVER	3	43	39	
JOE'S VALLEY	61.6	24.9	33.9	44.6	SAN RAFAEL RIVER	7	75	48	
KEN'S LAKE	2.7	1.2	1.1	---	MUDDY CREEK	1	89	52	
MILL SITE	16.7	11.6	7.3	4.0	FREMONT RIVER	5	98	54	
SCOFIELD	65.8	8.3	12.4	32.2	LASAL MOUNTAINS	2	209	84	
					BLUE MOUNTAINS	2	159	74	
					WILLOW CREEK - WHITE RIVE	2	97	39	
					CARBON, EMERY, WAYNE, GRA	22	87	52	

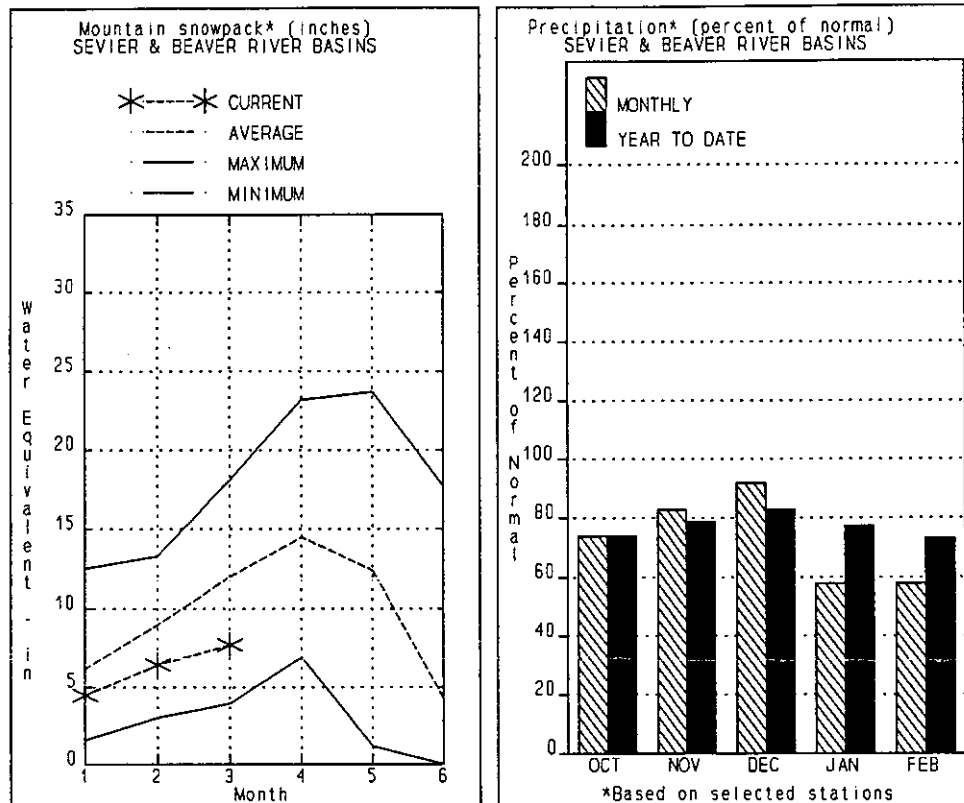
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The average is computed for the 1961-1985 base period.

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- (2) - The value is natural flow - actual flow may be affected by upstream water management.

# SEVIER & BEAVER RIVER BASINS

March 1, 1991



Snow water content on the Sevier River watershed is just a little less than at the same time last year. Unfortunately, it still has 36% less water content than it should have on the first of March. March storms would have to produce 276% of normal additional snow water in order to bring the snowpack to average on April first -- an amount unprecedented in the last thirty years. Mountain precipitation now stands at 73% of average for the water year. Reservoir storage is 91% of average and 54% of capacity. Streams are expected to produce much less water than normal again next spring and summer with individual forecasts ranging from 45% to 65% of average across the basin.

# SEVIER & BEAVER RIVER BASINS

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		CHANCE OF EXCEEDING *		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	4.0	18.0	27	52	37	50	52
SEVIER near Circleville	APR-JUL			25	57			44
SEVIER near Kingston	APR-JUL	1.4	3.3	15.8	46	28	47	34
ANTIMONY CREEK near Antimony	APR-JUL			4.8	54			8.9
E F SEVIER near Kingston	APR-JUL	1.2	5.6	12.0	50	18.4	28	24
SEVIER blw Piute Dam	APR-JUL	3.0	10.0	28	50	46	73	56
CLEAR CREEK near Sevier	APR-JUL			11.9	54			22
SIGURD to GUNNISON	APR-JUL	0.0	1.0	22	50	43	73	44
KINGSTON to VERMILLION DAM	APR-JUL			10.0	53			18.9
VERMILLION DAM to GUNNISON	APR-JUN			20	50			40
SALINA CREEK at Salina	APR-JUN			9.8	54			18.2
PLEASANT CREEK near Pleasant	APR-JUL			6.0	52			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			11.2	45			25
SEVIER nr Gunnison	APR-JUL			53	54			99
CHICKEN CREEK near Levan	APR-JUL	0.3	1.2	1.9	54	2.6	3.5	3.5
OAK CREEK near Oak City	APR-JUL	0.1	0.2	0.9	56	1.6	2.6	1.6
CHALK CREEK near Fillmore	APR-JUL	1.8	6.6	9.8	60	13.0	17.8	16.4
BEAVER RIVER near Beaver	APR-JUL	1.6	9.2	16.0	59	23	33	27
NORTH CREEK near Beaver (combined)	APR-JUL	0.7	3.4	9.5	65	15.6	25	14.6
MINERSVILLE RESERVOIR inflow	APR-JUL	0.4	5.5	9.8	59	14.1	21	16.7

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.				
GUNNISON	20.3	3.1	4.2	14.0	UPPER SEVIER RIVER (south	10	81	52
MINERSVILLE (RkyFd)	26.0	9.8	10.4	12.9	EAST FORK SEVIER RIVER	4	89	54
OTTER CREEK	52.7	24.9	24.0	31.2	SOUTH FORK SEVIER RIVER	6	77	52
PIUTE	71.8	28.6	50.5	41.5	LOWER SEVIER RIVER (inclu	12	91	68
SEVIER BRIDGE	236.0	127.6	153.7	119.6	BEAVER RIVER	2	153	78
PANQUITCH LAKE	22.3	5.0	8.2	---	SEVIER & BEAVER RIVER BAS	24	91	64

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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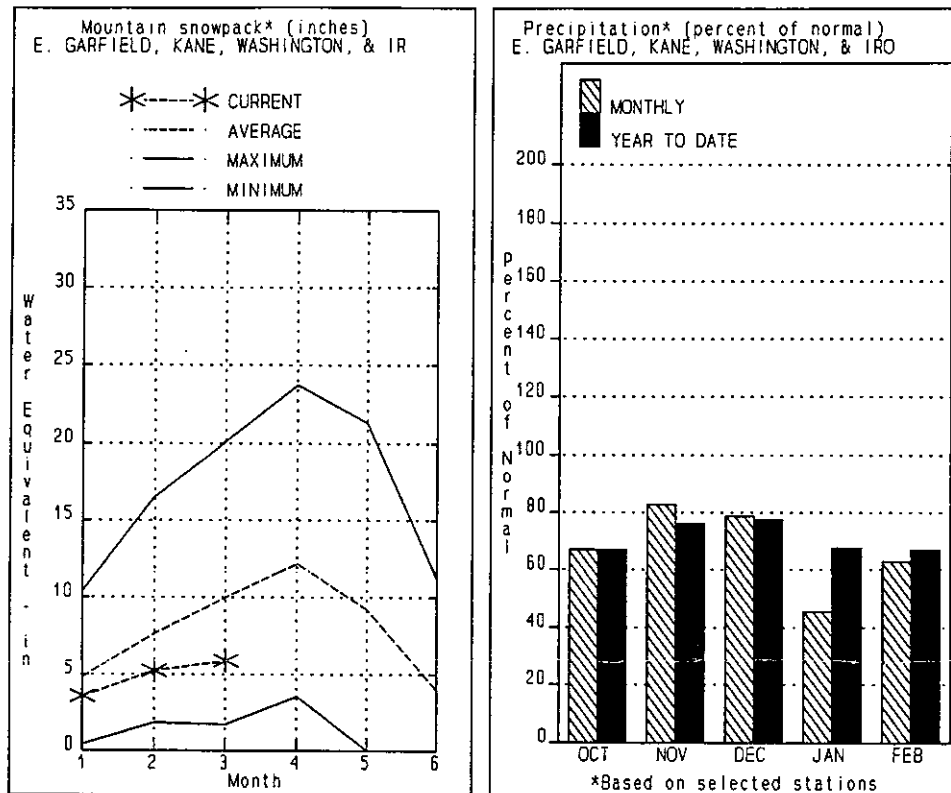
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(2) - The value is natural flow - actual flow may be affected by upstream water management.



# E. GARFIELD, KANE, WASHINGTON, & IRON Co

March 1, 1991



The snowpack in southwestern Utah has continued to deteriorate from last month to 58% of average. This poor status dims the hope of achieving normal levels by April first. February precipitation at mountain stations was only 63% of normal bringing the total for the water year to 67%. The Enterprise Reservoirs contain 11% of combined capacity, Gunlock and Quail Creek are approximately 60% of capacity. Streamflow forecasts now range from 49% to 54% of normal for the upcoming spring and summer.

# E. GARFIELD, KANE, WASHINGTON, & IRON Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
-----								
COAL CK nr Cedar City	APR-JUL	4.6	8.3	10.8	54	13.3	17.0	20
LAKE POWELL Inflow	APR-JUL	1930	3400	4400	54	5400	6870	8086
VIRGIN R nr Hurricane	APR-JUN	10.0	26	36	53	46	62	68
-----								
SANTA CLARA R nr Pine Valley	APR-JUN	0.5	1.6	2.4	49	3.2	4.3	5.0

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
GUNLOCK	10.4	6.3	5.7	---	VIRGIN RIVER	5	90	57	
LAKE POWELL	25002.0	15241.0	18196.0	---	PAROWAN	4	127	74	
QUAIL CREEK	40.0	22.9	---	---	ENTERPRISE TO NEW HARMONY	2	27	24	
UPPER ENTERPRISE	10.0	0.8	0.6	---	COAL CREEK	3	91	55	
LOWER ENTERPRISE	2.6	0.6	0.5	---	ESCALANTE RIVER	2	72	48	
					E. GARFIELD, KANE, WASHIN	14	91	58	

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# STATE OF UTAH GENERAL OUTLOOK

March 1, 1991

## SUMMARY

The water supply outlook for next spring and summer has deteriorated further from the bleak situation reported last month. Statewide snowpack as of March first is 63% of average, mountain precipitation for the water year is 71% of normal, and streamflow projections for this spring and summer average is 55% of normal.

## SNOWPACK

Snow water content in the snowpack on the watersheds of Utah, compared to average, suffered a decrease of 4% during February as a result of continued below average precipitation and above normal temperature. On the first of February the snowpack was 67% of average and on March first it is 63% for the State as a whole. Snowpack increases during February range from 3% of normal on the Bear River Basin to 75% in southeastern Utah. March storms will have to yield almost three times normal snow water if we are to reach normal by April first. All seven of our major reporting areas now have less water content than at the same time last year. March first snow water ranges from 52% of average in southeastern Utah to 69% on the Weber.

## PRECIPITATION

Mountain precipitation stations received 39% less than normal moisture last month. Every month so far this water year has been below average statewide. Across the State February totals ranged from 54% of average on the Bear to 66% on the Weber.

Water year totals at mountain stations now range from 62% in southeastern Utah to 74% of the October through February average on the Utah Lake, Jordan River and Tooele Valley watersheds with the total for the entire State at 71% of normal.

Precipitation at valley stations during February generally ranged from 35% to 55% of average in the north and from 25% to 45% in southern Utah.

Seasonal precipitation (October through February) at valley stations now ranges from 60 to 75% in northern Utah and 65 to 80% down south.

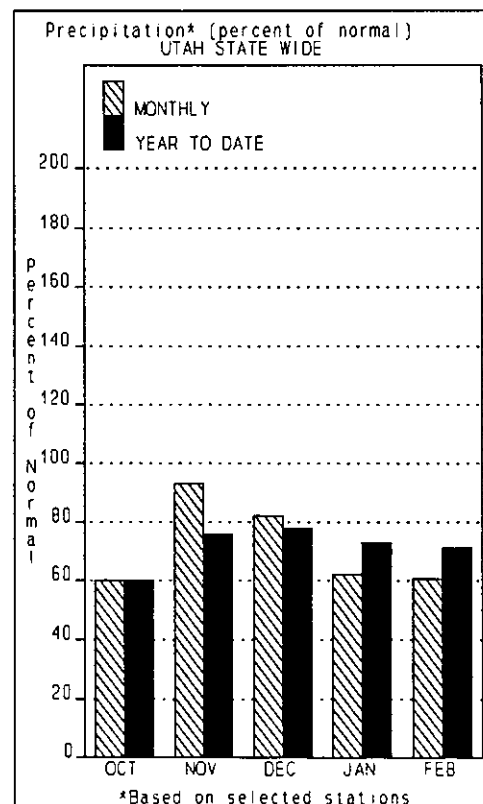
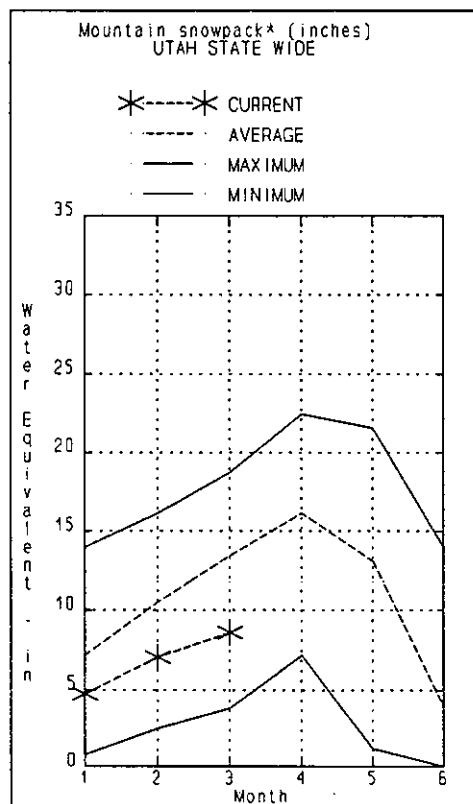
## RESERVOIRS

Stored water in 26 key irrigation reservoirs in Utah is still less than 50% of combined capacity (46%). This is up 4% from last month but, with streamflow projections down again this month, there is little reason to rejoice. At the end of February these reservoirs would normally have 68% of capacity filled. Last year the same reservoirs were 59% full.

Some of the reservoirs not expected to fill this year are Lost Creek, East Canyon, Starvation, Steinaker, Scofield and Joe's Valley. Many others are questionable. Large reservoirs like Lake Powell will require several years to fill again even with above normal precipitation.

## STREAMFLOW

Streamflow projections for next spring and summer have fallen an average of 6% from the levels forecast last month due to below normal precipitation during February. Forecasts now range from 38% to 82% of normal statewide. With only one month remaining until the time of normal peak snowpack accumulation and with the current deficit facing water managers, the need for restrictions is apparent. Weber Basin, for example, has informed users not to expect more than 50% of normal deliveries this season. Other user groups should be prepared for similar shortages.



SNOW COURSE DATA  
FOR THE STATE OF UTAH  
As of MARCH 1, 1990

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ASHLEY TWIN LAKES	10500	2/26	33	6.6	8.6	13.6	DILL'S CAMP SNOTEL	9200	3/01	29	6.25	7.0	12.0
BEAVER DAMS	8000	2/25	23	6.1	6.8	10.5	DIRTY HEAD	5400					
BEAVER DAMS SNOTEL	8000	3/01	22	6.65	6.7	10.5	DONKEY RESERVOIR SNO	9800	3/01	-	3.45	4.4	6.7
BEAVER DIVIDE SNOTL	8280	3/01	-	6.15	9.7	11.0	DRY BREAD POND	8350	02/22	37	9.5	11.5	16.0
BEN LOMOND PK SNOTL	8000	3/01	62	20.85	20.8	33.3	DRY BREAD POND SNOTL	8350	3/01	40	10.65	11.6	16.0
BEN LOMOND TR SNOTL	6000	3/01	34	11.65	9.9	18.7	EAST SHINGLE LAKE	9800	2/26	57	14.8	19.1	22.8
BEVAN'S CABIN	6450	3/06	20	6.6	9.4	8.8	EAST WILLOW CREEK SN	8250	3/01	-	4.65	5.5	9.9
BIG FLAT SNOTEL	10290	3/01	43	9.95	6.5	14.1	FARMINGTON CANYON L.	6950	2/26	53	15.9	14.5	20.0
BIRCH CROSSING	8100	3/01	18	5.1	4.2	6.4	FARMINGTON CN SNOTEL	8000	3/01	61	20.25	19.1	25.0
BLACK FLAT-U.M. CK S	9400	3/01	24	3.75	5.3	10.1	FARNMORTH LAKE	9600	2/25	51	14.4	10.7	15.5
BLACK'S FORK GS-EF	9340	2/27	26	5.6	7.3	7.6	FARNMORTH LK SNOTEL	9600	3/01	54	13.25	10.5	15.5
BLACK'S FORK JUNCTN	8930	2/27	24	4.7	6.2	7.6	FISH LAKE	8700	2/24	21	5.7	2.4	7.4
BOX CREEK SNOTEL	9300	3/01	37	6.85	5.6	11.1	FIVE POINTS LAKE SNO	10920	3/01	-	9.15	12.7	10.4
BRIAN HEAD	10000	2/23	44	11.6	9.6	16.5	FRANCES FLATS	6700	3/04	51	15.4	11.1	18.1
BRIGHTON CABIN	8700	2/28	49	13.9	21.4	23.2	G.B.R.C. HEADQUARTER	8700	2/25	34	9.2	11.8	14.2
BRIGHTON SNOTEL	8750	3/01	46	15.25	20.4	23.9	G.B.R.C. MEADOWS	10000	2/25	44	11.0	14.1	20.0
BROWN DUCK SNOTEL	10600	3/01	-	9.05	12.7	16.2	GARDEN CITY SUMMIT	7600	02/22	26	7.1	7.9	15.4
BRYCE CANYON	8000	2/27	6	1.4	3.8	4.6	GEORGE CREEK	8840	2/23	40	11.5	12.1	18.1
BUCK FLAT SNOTEL	9800	3/01	32	7.15	8.2	14.3	GOOSEBERRY R.S.	8400	02/25	36	9.8	8.7	10.1
BUCK PASTURE	9700	2/26	40	8.8	12.5	13.5	GOOSEBERRY R.S. SNOT	7900	3/01	24	4.65	7.6	9.9
BUG LAKE SNOTEL	7950	3/01	34	9.25	11.9	18.0	HARRIS FLAT	7700	2/24	15	4.4	5.7	7.9
BURT'S-MILLER RANCH	7900	2/27	15	3.4	4.5	4.6	HARRIS FLAT SNOTEL	7700	3/01	13	4.95	3.2	7.7
CAMP JACKSON	8600	3/04	38	8.6	4.8	11.5	HAYDEN FORK	9400	2/27	30	7.3	10.3	12.9
CAMP JACKSON SNOTEL	8600	3/01	39	6.35	5.5	11.5	HAYDEN FORK SNOTEL	9100	3/01	31	7.85	11.2	14.0
CASTLE VALLEY	9580	2/24	28	6.6	7.4	11.4	HENRY'S FORK	10000	2/26	34	8.2	9.1	11.3
CASTLE VALLEY SNOTL	9580	3/01	28	7.05	6.0	11.5	HEWINTA SNOTEL	9500	3/01	28	6.45	7.6	7.5
CHALK CK #1 SNOTEL	9100	3/01	52	16.35	14.7	19.4	HICKERSON PARK SNOTE	9100	3/01	-	3.95	4.4	5.5
CHALK CK #2 SNOTEL	8200	3/01	38	10.95	12.5	12.6	HIDDEN SPRINGS	5500	2/28	13	4.7	4.3	6.0
CHALK CREEK #3	7500	2/27	18	4.5	5.2	6.7	HOBBLE CREEK SUMMIT	7420	2/26	26	6.8	11.3	12.9
CHEPETA SNOTEL	10300	3/01	-	9.75	9.8	10.4	HOLE-IN-ROCK SNOTEL	9150	3/01	-	3.95	4.4	4.5
CITY CREEK	7500	3/04	70	21.1	17.1	22.7	HORSE RIDGE SNOTEL	8260	3/01	43	16.25	15.8	21.1
CLEAR CK RIDG #1 SNT	9200	3/01	40	11.05	15.2	16.9	HUNTINGTON-HORSESHOE	9800	2/26	43	12.8	13.3	21.3
CLEAR CK RIDG #2 SNT	8000	3/01	34	7.15	9.9	12.8	INDIAN CANYON SNOTEL	9100	3/01	22	4.15	8.4	9.9
CLEAR CREEK MEADOWS	9420	2/23	39	11.4	12.0	19.3	JOHNSON VALLEY	8850	2/25	20	4.4	3.4	6.4
CLEAR CREEK RIDGE #3	6600	2/26	16	5.0	7.9	7.5	KILFOIL CREEK	7300	02/22	34	8.2	10.4	12.5
COLD WATER SPRINGS	6030						KILLION CANYON	6300	2/28	16	6.3	4.8	6.9
CORRAL	8200						KIMBERLY MINE SNOTEL	9300	3/01	39	11.05	8.9	13.1
CURRANT CREEK SNOTEL	8000	3/01	18	4.25	8.0	10.4	KING'S CABIN SNOTEL	8730	3/01	-	6.45	7.8	9.7
DANIELS-STRAWBERRY S	8000	3/01	26	7.45	11.3	15.8	KLONDIKE NARROWS	7400	02/22	31	9.4	11.2	17.4
DESERET PEAK	9250						KLOB SNOTEL	9250	3/01	42	13.85	10.3	18.1
DESERET PEAK AM	9250	3/06	37	9.2	8.9	22.2	LAKEFORK #1 SNOTEL	10100	3/01	30	7.65	9.0	9.6
DESERET PEAK SNOTEL	9250	3/01	-	8.85	10.9	22.2	LAKEFORK BASIN SNOTE	10900	3/01	-	10.55	13.7	13.2

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
LAKEFORK MOUNTAIN #3	8400	2/27	17	3.6	6.3	5.7	REESE'S FLAT	7300	2/25	26	7.4	9.9	11.2
LAMBS CANYON	7400	02/27	37	11.2	11.5	14.2	ROCK CREEK SNOTEL	7900	3/01	23	4.85	6.2	6.7
LASAL MOUNTAIN LOWER	8800	3/01	33	7.4	2.7	7.8	ROCKY BASIN-SETTLEMENT	8900	3/06	58	16.2	17.5	23.4
LASAL MOUNTAIN SNOTE	9850	3/01	39	9.35	5.3	12.0	ROCKY BN-SETTLEMENT SN	8900	3/01	51	10.65	14.7	19.5
LILLY LAKE SNOTEL	9050	3/01	-	7.25	8.7	11.7	SEELEY CREEK SNOTEL	10000	3/01	20	6.05	7.3	13.9
LITTLE BEAR LOWER	6000	2/26	18	6.2	-	9.5	SHINGLE MILL	6200	02/26	22	7.1	7.2	7.8
LITTLE BEAR SNOTEL	6550	3/01	17	6.75	9.2	13.6	SILVER LAKE(BRIGHT-.)	8730	02/26	48	14.8	18.8	20.6
LITTLE GRASSY CREEK	6100	2/23	0	0.0	5.4	4.0	SMITH MOREHOUSE SNTL	7600	3/01	32	8.55	11.7	12.5
LITTLE GRASSY SNOTEL	6100	3/01	-	2.35	4.6	4.0	SNOWBIRD GAD VALLEY	9700	2/28	69	22.0	36.6	28.1
LONG FLAT SNOTEL	8000	3/01	9	2.75	4.7	7.3	SNOWBIRD SNOTEL	9700	3/01	67	21.55	25.4	29.3
LONG VALLEY JCT.	7500	2/24	0	.0	4.5	4.9	SPIRIT LAKE	10300	3/07	39	8.4	7.9	10.1
LONG VALLEY JCT. SNT	7500	3/01	-	.95	5.1	4.9	SQUAW SPRINGS	9300	2/24	20	4.6	3.5	6.6
LOOKOUT PEAK SNOTEL	8200	2/25	54	13.95	14.7	20.5	STEEL CREEK PARK SNO	10100	3/01	42	8.75	9.6	12.8
LOST CREEK RESERVOIR	6130	2/22	9	2.8	3.9	5.8	STILLWATER CAMP	8550	2/27	26	5.3	7.7	8.6
MAMMOTH-COTTONMND SNT	8800	3/01	36	12.75	13.5	20.4	STRAWBERRY DIVIDE SN	8400	3/01	32	9.15	12.7	18.6
MAMMOTH-COTTONWOOD	8800	2/26	40	10.6	14.9	18.4	STUART R.S.	7950	2/25	13	3.3	6.2	7.4
MERCHANT VALLEY SNOT	8750	3/01	35	8.45	5.5	9.4	SUSC RANCH	8200	3/01	12	4.2	4.7	7.7
MIDDLE CANYON	7000	3/06	28	8.7	11.3	11.7	TALL POLES	8800	3/01	35	8.8	7.0	12.2
MIDWAY VALLEY	9800	2/24	33	8.5	10.8	18.1	THAYNES CANYON SNOTL	9200	3/01	45	12.05	15.9	17.9
MIDWAY VALLEY SNOTEL	9800	3/01	36	12.35	12.3	17.4	THISTLE FLAT	8500				-	13.8
MILL CREEK	6950	2/27	44	13.2	13.4	16.3	TIMBERLINE	9100				-	
MILL-D NORTH SNOTEL	8960	3/01	43	14.45	15.4	21.7	TIMPANOGOS DIVIDE SN	8140	3/01	42	10.45	18.7	21.1
MILL-D SOUTH FORK	7400	02/26	43	12.8	15.2	17.2	TONY GROVE LK SNOTEL	8400	3/01	60	20.75	20.8	31.6
MINING FORK SNOTEL	8000	3/01	42	8.35	9.2	21.5	TONY GROVE R.S.	6250	02/22	23	6.9	8.0	11.1
MONTE CRISTO R.S.	8960	02/22	49	14.52	15.1	24.3	TRIAL LAKE	9960	2/27	47	11.9	16.5	20.4
MONTE CRISTO SNOTEL	8960	3/01	56	18.55	19.1	24.3	TRIAL LAKE SNOTEL	9960	3/01	52	11.75	14.6	20.4
MOSBY MTN. SNOTEL	9500	3/01	-	6.85	7.8	9.7	TROUT CREEK SNOTEL	9400	3/01	-	6.45	7.1	8.1
MT.BALDY R.S.	9500	2/25	49	12.6	12.4	20.2	UPPER JOES VALLEY	8900	2/25	20	3.9	7.5	9.6
MUD CREEK #2	8600	2/25	26	5.2	11.4	11.9	UPPER MILL CREEK	8300				-	
OAK CREEK	7760	2/23	25	5.8	10.4	11.4	VERNON CREEK SNOTEL	7500	3/01	-	5.05	5.1	9.8
ONE MILE SUMMIT	7330	2/23	8	1.9	2.3	6.0	VIPONT	7670				7.7	13.4
OTTER LAKE	9600				-	11.6	WEBSTER FLAT SNOTEL	9200	3/01	17	8.35	7.6	12.4
PANQUITCH LAKE	8200	2/23	2	.6	3.3	4.6	WHITE RIVER #1 SNOTE	8550	3/01	25	3.15	9.6	12.7
PARLEY'S CANYON SNOT	7500	3/01	32	12.65	11.9	16.9	WHITE RIVER #3	7400	2/26	14	4.5	8.6	7.9
PARLEY'S CANYON SUM.	7500	02/27	43	12.4	12.0	16.0	WIDTSON #3 SNOTEL	9500	3/01	21	4.45	6.5	9.7
PAYSON R.S.	8050	2/23	42	10.2	14.8	16.6	WRIGHTLEY CREEK	9000	2/25	20	3.9	7.0	9.8
PAYSON R.S. SNOTEL	8050	3/01	39	11.15	14.0	19.2	YANKEE RESERVOIR	8700	2/23	28	6.4	4.3	8.0
PICKLE KEG SNOTEL	9600	3/01	39	10.95	7.3	15.3	NOTE:						
PICKLE KEG SPRING	9600	2/25	38	9.5	7.7	14.6	The s flag following Water Content for SNOTEL sites indicates telemetered						
PINE CREEK	8800	2/23	36	11.2	11.7	14.0	data, the Depth reading preceeding s flagged data was measured around the						
PINE CREEK SNOTEL	8800	3/01	44	15.15	12.7	15.9	snow pillows at the time of the ground survey and may not be the same date as						
RED PINE RIDGE SNOTE	9200	3/01	34	8.15	10.9	17.5	the telemetered value.						
REDDEN MINE LOWER	8500	2/27	34	8.9	13.9	15.2							

# STATE OF UTAH GENERAL OUTLOOK

April 1, 1991

## SUMMARY

March was a good month for building the snowpack in Utah. Below normal temperatures and near to much above normal mountain precipitation resulted in snowpack increases more than twice as great as normal for the month in some areas. Streamflow forecasts have improved slightly following the good showing in March but with snowpacks still below average to much below average across the State forecasts remain much below normal. Low forecasts coupled with reservoir storage of less than half of capacity still do not bode well for the upcoming spring and summer. Water shortages are going to be evident again this year.

## SNOWPACK

Frequent storms during March brought welcome improvement to the snowpack. Increases in snow water equivalent ranged from 12% above average on the Bear River watershed to 119% above average in southwestern Utah. Although the improvement has been dramatic over the last month the snowpack for the State as a whole is still only 76% of normal for April first ranging from 66% on the Bear to 85% in southwestern Utah. With the exception of the Uintas the snowpack is better this year than last year. The Uintas have 96% of the snow water content they had last year. This is the fifth consecutive April first with below average snowpack in all areas of the State and the sixth consecutive below average April first in the Sevier River and southwestern Utah watersheds.

## PRECIPITATION

Precipitation at mountain stations was near to much above normal in all areas of the State during March. This was the best month of precipitation we have experienced thus far in the 1991 water year and the first month to record above normal rainfall so far this water year.

For the water year precipitation remains below average across the State. Since October 1, 1990 mountain stations have received 75% to 84% of normal precipitation. Statewide mountain precipitation now stands at 80% of average--an improvement of 9% since last month.

The National Weather Service reports 90% to 115% of normal rainfall during March at stations in their network in the north and 95% to 125% of normal at southern Utah stations.

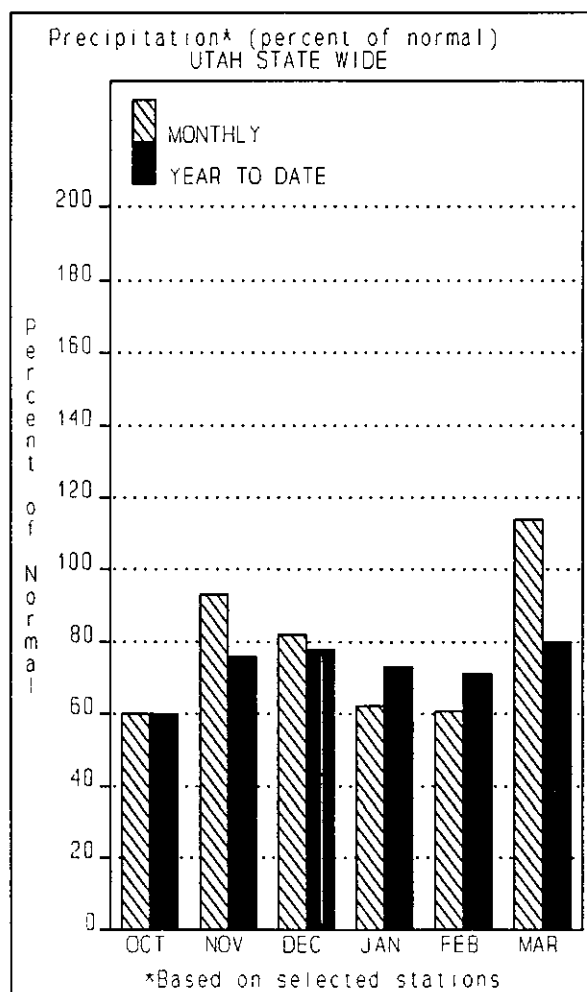
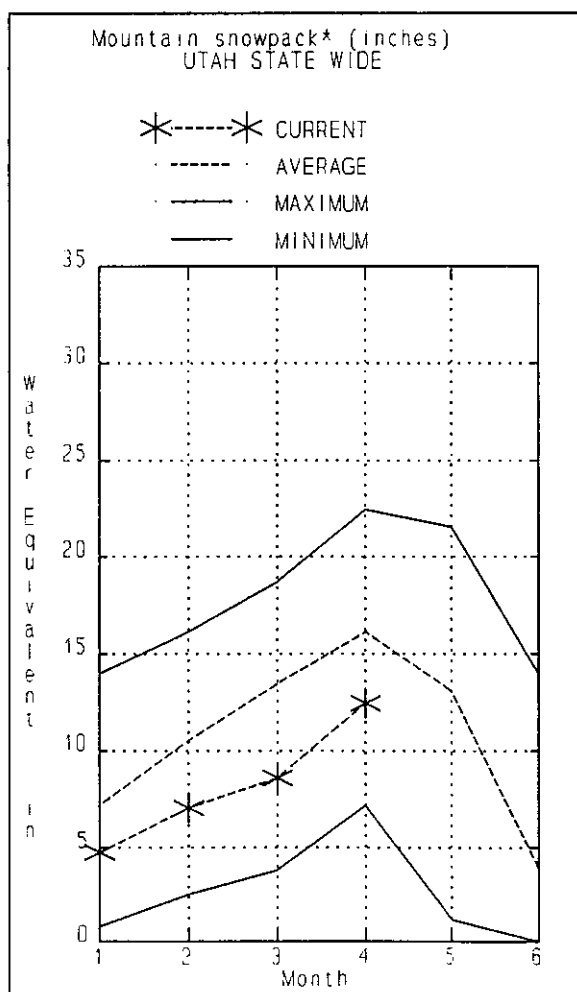
Water year totals at NWS stations now stand at 65% to 85% of average in the north and 70 to 90% in the south.

# RESERVOIRS

Our sample of 26 key irrigation reservoirs in Utah has 49% of their cumulative capacity filled. Last year at the end of March the same reservoirs had 63% of their combined capacity filled. Normally by the end of March these reservoirs would have 70% of their capacity filled. Hyrum, Vernon and Huntington North are full with storage ranging down to 15% of capacity at Scofield. Many reservoirs are still not projected to fill this season.

# STREAMFLOW

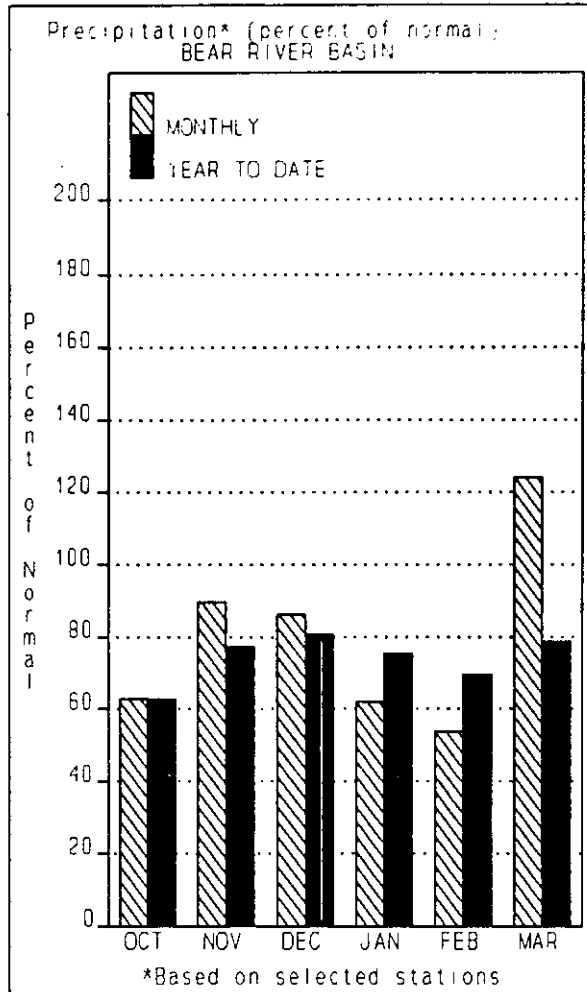
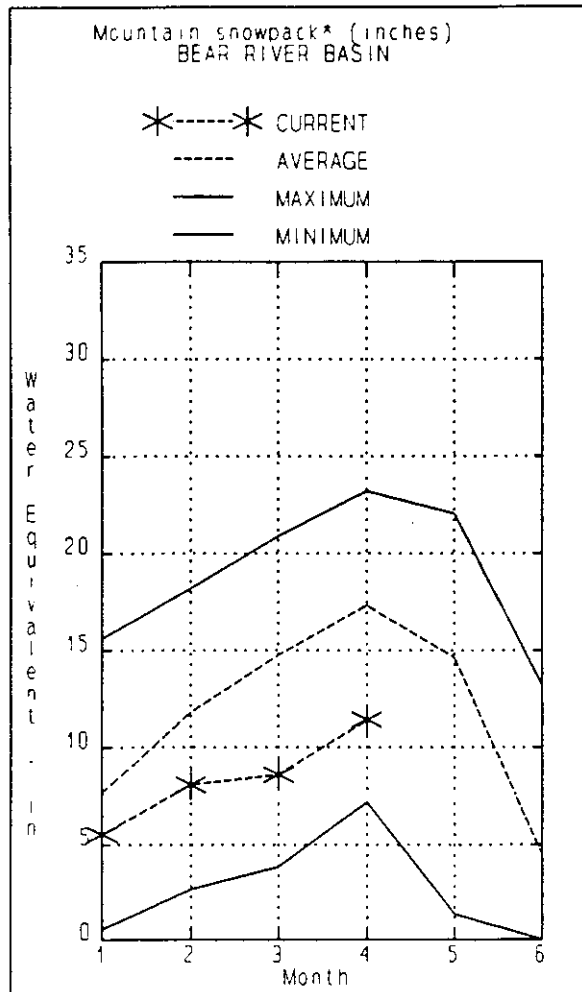
Abundant storminess during March produced significant increases to the snowpack but, with the deficit we faced at the beginning of March and the compounded effects of five consecutive drought years, streamflow forecasts are only slightly improved from levels forecast last month. Forecasts range from 40% of the April through July normal for the Bear near Randolph to 104% for the San Juan River near Bluff (a stream which originates outside Utah). Most flows will be in the 60% to 70% of average range with earlier than normal peaks and extremely low late season flow.





# BEAR RIVER BASIN

April 1, 1991



The Bear River watershed received abundant precipitation during March producing 12% more increase in snow water content than normal. April first snowpack is 66% of average and 123% of last year but still the poorest in the State compared to average. Precipitation at mountain stations for the water year is 79% of normal. Bear Lake contains only 36% of capacity which is 52% of average for the end of March. Streamflow forecasts range from 40% to 62% of average--an improvement of only about 3% from last month.

# BEAR RIVER BASIN

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----->		FUTURE CONDITIONS		>----- WETTER -----<		25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)		
BEAR RIVER nr Ut-Wy Stateline	APR-JUL	47	62	72	62	82	97	116
BEAR near Woodruff (2)	APR-JUL	15.0	45	85	57	126	185	150
WOODRUFF CREEK near Woodruff	APR-JUL	5.3	8.4	10.5	61	12.6	15.7	17.3
BIG CREEK near Randolph	APR-JUL	0.5	1.5	3.0	57	4.5	6.6	5.3
BEAR near Randolph	APR-JUL	6.0	15.0	50	40	85	136	126
SMITHS FORK near Border, WY	APR-SEP	42	57	68	59	79	94	115
THOMAS FORK near Wy-Id Stateline	APR-SEP	10.0	17.0	22	59	27	34	37
BEAR RIVER near Harer	APR-SEP	9.0	108	175	56	240	340	310
BEAR RIVER blw Stewart Dam (2)	APR-SEP	57	116	155	52	195	255	298
CUB RIVER near Preston	APR-JUL	15.0	23	28	60	34	42	47
LITTLE BEAR RIVER near Paradise	APR-JUL	3.0	16.0	25	55	34	47	46
LOGAN RIVER near Logan	APR-JUL	42	60	72	59	84	102	122
BLACKSMITH FORK near Hyrum	APR-JUL	10.0	24	34	60	44	58	57

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
BEAR LAKE	1421.0	518.0	746.6	1002.1	BEAR RIVER, UPPER (above	12	103	74	
HYRUM	15.3	15.3	14.4	12.2	BEAR RIVER, LOWER (below	22	153	64	
PORCUPINE	11.3	6.2	6.6	5.0	LOGAN RIVER	5	121	64	
WOODRUFF NARROWS	55.8	22.5	17.5	---	BEAR RIVER DRAINAGE	34	128	68	
WOODRUFF CREEK	4.0	2.3	---	---	RAFT RIVER	4	91	58	
					BEAR RIVER BASIN	38	123	67	

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

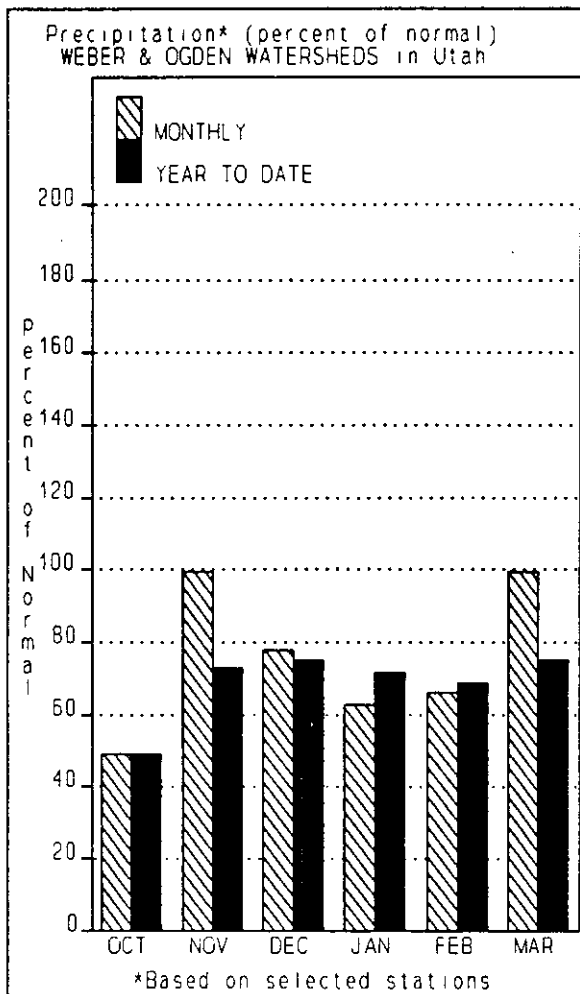
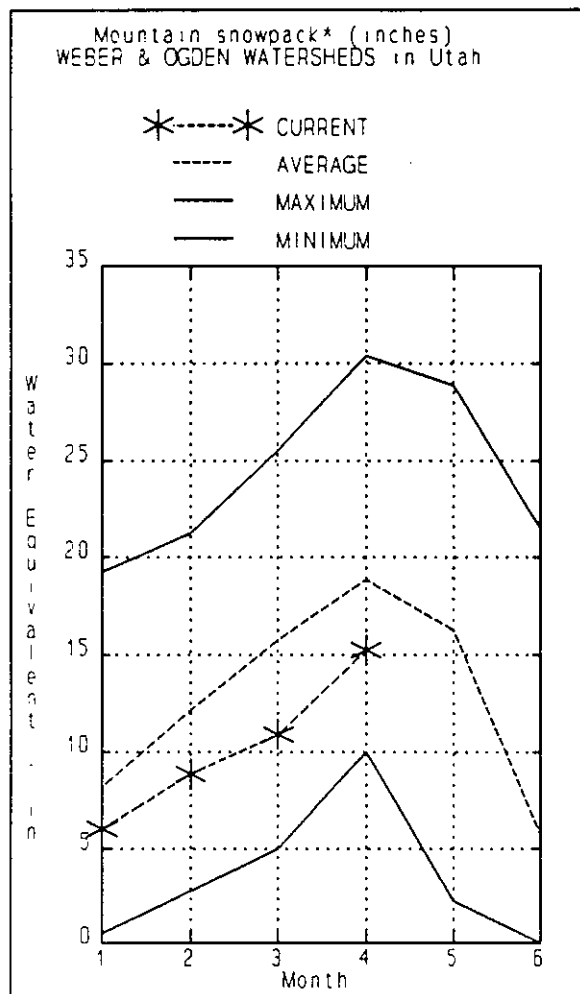
The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# WEBER & OGDEN WATERSHEDS in Utah

April 1, 1991



Snow water content in the Weber River watershed snowpack has improved to 81% of average as of April first. Precipitation stations in the Weber basin for the first half of the 1991 water year, however, have only caught 75% as much rainfall as normal and Weber Basin reservoirs are just slightly more than one-half full. Streamflow forecasts are up an average of 4% from last month and now range from 59% to 70% of average for the upcoming spring and summer.

# WEBER & OGDEN WATERSHEDS in Utah

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SMITH AND MOREHOUSE CREEK near Oakle	APR-JUN	14.0	18.0	21	70	24	28	30
WEBER RIVER near Oakley	APR-JUL	54	69	80	64	91	107	125
ROCKPORT RESERVOIR inflow	APR-JUL	50	69	82	60	95	114	136
CHALK CREEK at Coalville, Ut	APR-JUL	9.0	20	28	62	36	47	45
WEBER RIVER near Coalville, Ut	APR-JUL	55	76	91	64	106	128	142
ECHO RESERVOIR Inflow	APR-JUL	43	82	108	62	134	173	174
LOST CREEK Res Inflow	APR-JUL	3.0	7.7	10.8	59	13.9	18.6	18.3
EAST CANYON CREEK near Morgan	APR-JUL	9.6	14.9	18.5	60	22	27	31
HARDSCRABBLE CREEK near Porterville	APR-JUN	1.4	7.7	12.0	65	16.3	23	18.4
WEBER RIVER at Gateway	APR-JUL	156	197	225	60	255	295	374
S FORK OGDEN RIVER nr Huntsville	APR-JUL	29	36	41	62	46	53	66
PINEVIEW RESERVOIR Inflow	APR-JUL	60	81	95	60	109	130	159
WHEELER CREEK near Huntsville	APR-JUL	2.8	3.7	4.3	66	4.9	5.8	6.5
FARMINGTON CREEK near Farmington	APR-JUL	0.9	3.7	5.6	68	7.5	10.3	8.2

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
CAUSEY	7.1	2.5	2.8	2.6	OGDEN RIVER	4	138 74
EAST CANYON	48.1	29.4	37.3	36.6	WEBER RIVER	15	113 84
ECHO	73.9	42.2	58.7	49.5	WEBER & OGDEN WATERSHEDS	19	119 81
LOST CREEK	22.5	11.0	15.4	13.3			
PINEVIEW	110.1	47.9	73.8	55.6			
ROCKPORT	60.9	33.5	40.5	30.9			
WILLARD BAY	185.0	101.7	139.9	125.3			

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

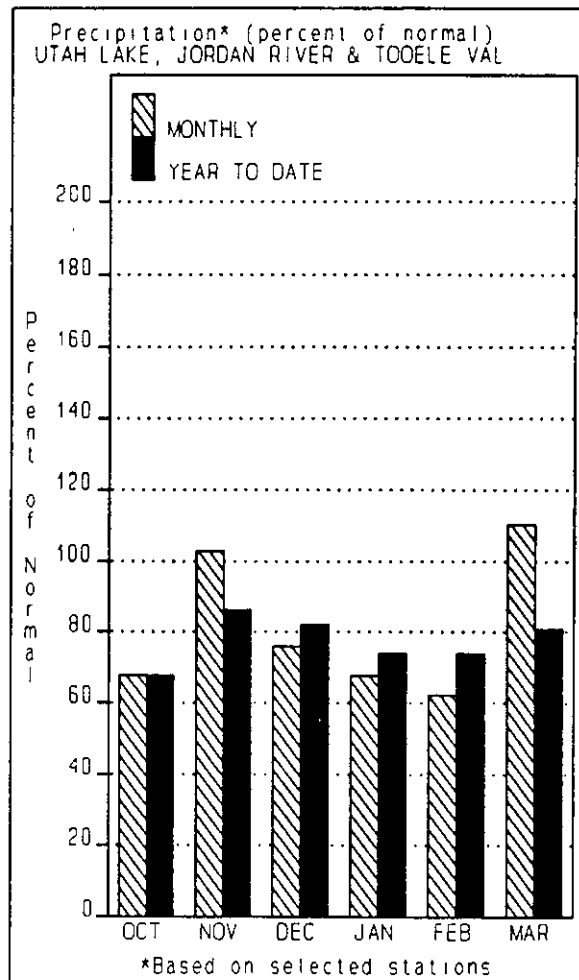
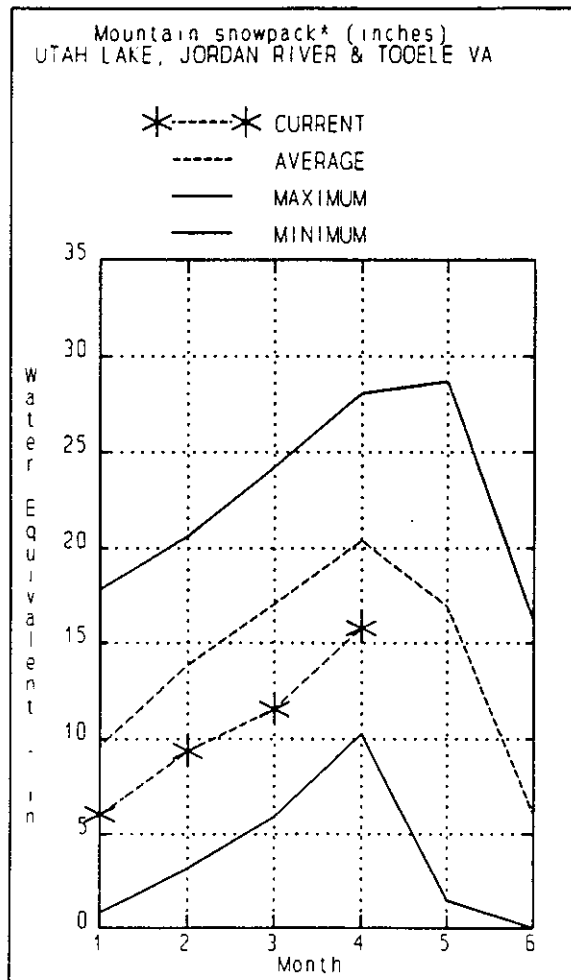
The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

April 1, 1991



March storms gave the snowpack a much needed boost. Snow surveys conducted the last week of March indicate 77% of average snow water content (9% improvement since last month). The previous five years of drought continue to take their toll. Forecasts of spring and summer streamflow only increased an average of 2% from last month and now range from 43% to 62% of average. Deer Creek Reservoir has above average stored water but Utah Lake has only 67% of normal end-of-March usable contents.

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER -----		FUTURE CONDITIONS		>----- WETTER ----->		25 YR. (1000AF)
				CHANCE OF EXCEEDING *				
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
<hr/>								
SALT CREEK near Nephi	APR-JUL	1.4	3.1	8.3	61	13.5	21	13.5
PAYSON CREEK near Payson	APR-JUL			4.4	60			7.3
SPANISH FORK near Castilla	APR-JUL			43	54			80
HOBBLE CREEK near Springville	APR-JUL			13.6	58			23
PROVO near Hailstone	APR-JUL	38	57	70	62	83	102	113
PROVO below Deer Creek Dam	APR-JUL	43	65	80	60	95	118	133
AMERICAN FORK near American Fk.	APR-JUL	14.2	17.7	20	59	22	26	34
UTAH LAKE inflow	APR-JUL	80	139	180	61	220	280	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	19.0	23	25	61	27	31	41
BIG COTTONWOOD CRK near SLC	APR-JUL	18.0	21	24	62	27	30	39
PARLEY'S CREEK near SLC	APR-JUL	3.7	7.3	9.8	58	12.3	15.9	17.0
MILL CREEK near SLC	APR-JUL	1.8	3.0	3.8	55	4.6	5.8	6.9
EMIGRATION CREEK near SLC	APR-JUL			2.0	43			4.6
CITY CREEK near SLC	APR-JUL	2.7	3.7	4.4	49	5.1	6.1	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.4	0.7	58	1.0	1.5	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.1	0.8	1.4	61	2.0	2.9	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.3	0.8	1.6	53	2.4	3.6	3.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	117.4	125.0	97.9	PROVO RIVER & UTAH LAKE	9	100	81
GRANTSVILLE	3.3	1.5	1.7	---	PROVO RIVER	4	94	74
SETTLEMENT CREEK	1.0	0.8	0.9	0.6	JORDAN RIVER & GREAT SALT	15	116	82
STRAWBERRY-ENLARGED	951.4	468.1	343.4	---	TOOELE VALLEY WATERSHEDS	6	97	59
UTAH LAKE	855.5	484.8	617.9	722.9	UTAH LAKE, JORDAN RIVER &	30	108	77
VERNON CREEK	0.6	0.6	0.6	0.5				

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

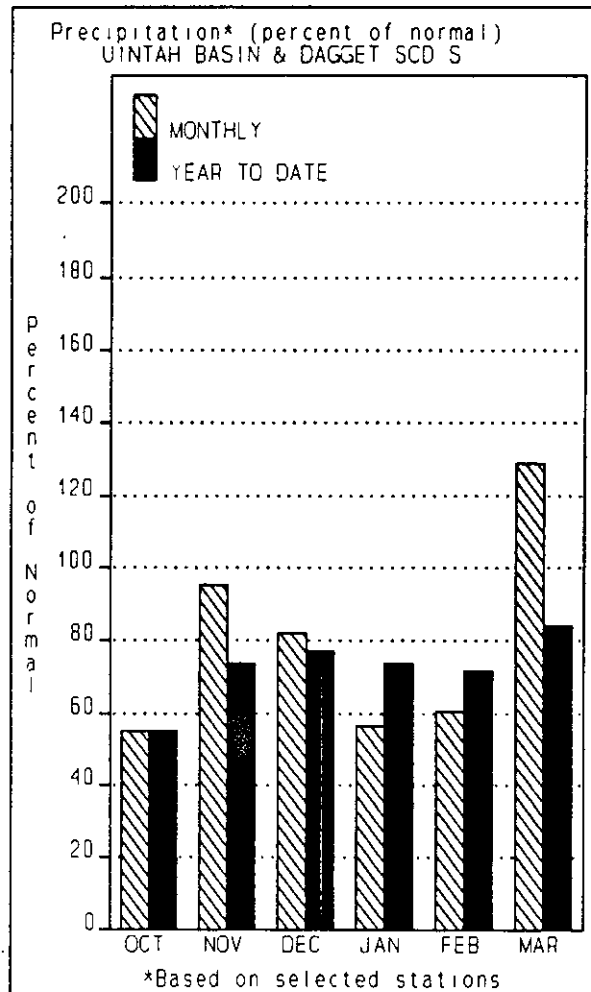
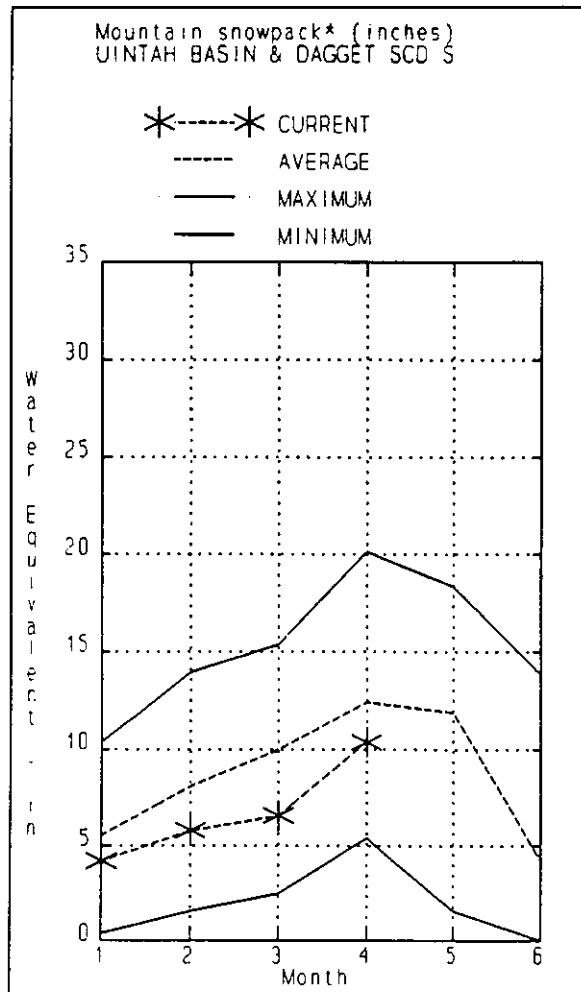
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

# UINTAH BASIN & DAGGET SCD'S

April 1, 1991



The Uinta Mountains received 62% more additional snow water during March than is normal bringing the April first snowpack to 84% of average. Snowpack ranges from 69% of average on the Strawberry River to 106% on the Uintah-Whiterocks watershed. March precipitation was 29% above average bringing the total for the water year to 84% of average. Starvation Reservoir has 80% of capacity filled (116% of average). Streamflow forecasts have improved by approximately 7% from last month. Forecasts range from 51% to 80% of the April through July norm.

# UINTAH BASIN & DAGGET SCD'S

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----->		FUTURE CONDITIONS		>----- WETTER ----->		25 YR. (1000AF)	
		CHANCE OF EXCEEDING *							
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)		
MEEKS CABIN RESV Inflow	APR-JUL	40	57	69	72	81	98	96	
STATE LINE RESV Inflow	APR-JUL	13.0	18.0	22	73	26	31	30	
HENRY'S FORK nr Manila	APR-JUL	13.0	21	27	60	33	42	45	
FLAMING GORGE RESV Inflow 2	APR-JUL	450	600	700	55	800	950	1267	
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	5.2	10.4	14.0	70	17.6	23	19.9	
ASHLEY CK nr Vernal 2	APR-JUL	27	33	37	71	41	47	52	
WF DUCHESNE R nr Hanna	APR-JUL	12.8	15.3	17.0	61	18.7	21	28	
DUCHESNE R nr Tabiona	APR-JUL	55	64	70	64	76	85	110	
UPPER STILLWATER RESV Inflow	APR-JUL	42	53	60	73	67	78	82	
ROCK CK nr Mountain Home	APR-JUL	46	60	70	74	80	94	95	
DUCHESNE R abv Knight Diversion	APR-JUL	94	113	125	66	138	156	190	
STRAWBERRY R nr Soldier Springs 2	APR-JUL	30	36	40	66	44	51	61	
CURRANT CK nr Fruitland 2	APR-JUL	9.3	11.5	13.0	57	14.5	16.7	23	
STRAWBERRY R nr Duchesne (incl Straw	APR-JUL	51	62	70	58	78	89	121	
STARVATION RESV Inflow (w/o Strawber	APR-JUL	27	34	38	57	42	49	67	
LAKEFORK R blw Moon Lake 2	APR-JUL	41	49	55	77	61	69	71	
YELLOWSTONE R nr Altonah	APR-JUL	27	42	52	79	62	77	66	
DUCHESNE R at Myton 2	APR-JUL	77	124	155	56	187	235	275	
UINTA R nr Neola	APR-JUL	34	55	69	78	83	104	88	
WHITEROCKS R nr Whiterocks	APR-JUL	25	39	48	80	57	71	60	
DUCHESNE R nr Randlett 2	APR-JUL	71	105	175	51	270	410	340	

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
FLAMING GORGE	3749.0	3080.8	2967.9	---	UPPER GREEN RIVER in UTAH	12	89	79
MOON LAKE	49.5	31.1	29.1	18.3	ASHLEY CREEK	2	91	79
RED FLEET	26.0	17.4	14.6	---	BLACK'S FORK RIVER	3	96	76
STEINAKER	33.3	11.0	8.1	22.6	SHEEP CREEK	2	75	73
STARVATION	165.3	132.3	140.0	114.1	DUCHESNE RIVER	12	102	89
STRAWBERRY-ENLARGED	951.4	468.1	343.4	---	LAKE FORK-YELLOWSTONE CRE	5	103	99
					STRAWBERRY RIVER	4	98	69
					UINTAH-WHITEROCKS RIVERS	2	99	106
					UINTAH BASIN & DAGGET SCD	24	96	84

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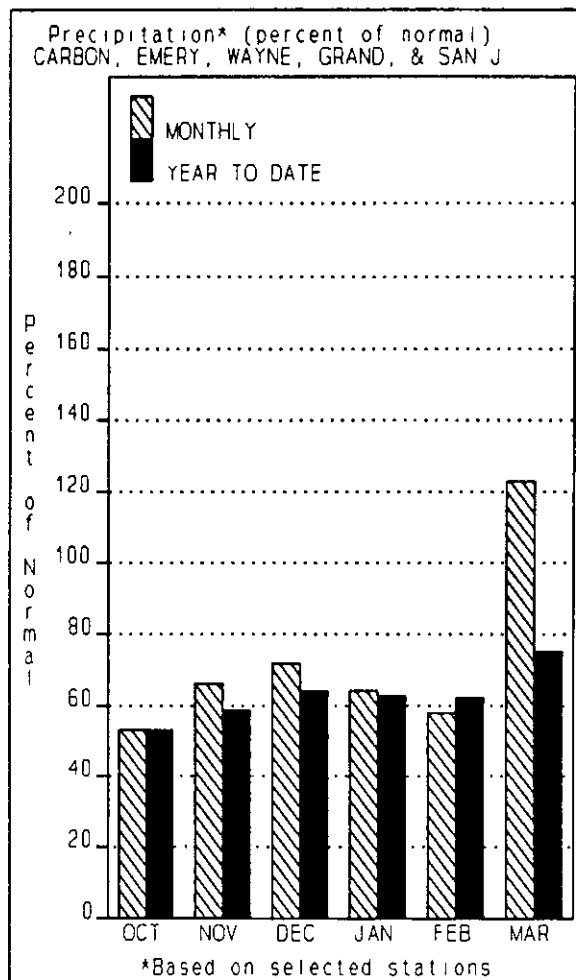
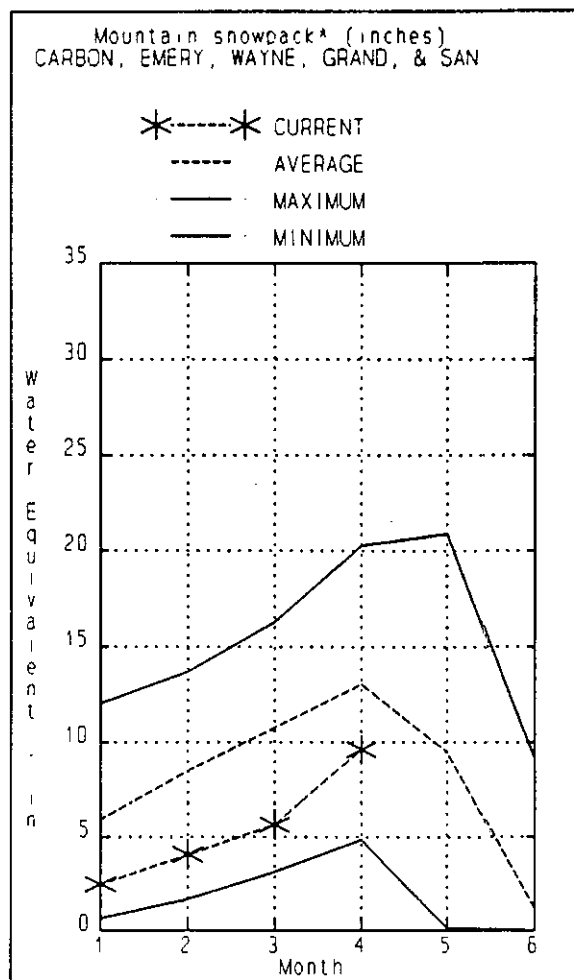
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(2) - The value is natural flow. Actual flow may be affected by upstream storage.



# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

April 1, 1991



Southeastern Utah snowpack increased 78% more than usual during March but still not enough to bring the snow water content to normal. The snowpack is 73% of the April first average. Precipitation at mountain stations was 123% of average during March bringing the water year accumulation to 75% of average. Reservoir storage is 57% of average with Huntington North full. Streamflow projections have increased more in southeastern Utah compared to last month than anywhere else in the State (10%) but still average only 64% of normal.

# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->							
		CHANCE OF EXCEEDING *							25 YR. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)		
GOOSEBERRY CK nr Scofield	APR-JUL	3.0	4.8	6.0	50	7.2	9.0	12.0	
SCOFIELD RESV Inflow	APR-JUL	15.0	20	23	50	26	31	46	
PRICE R nr Heiner 2	APR-JUL	19.0	25	29	49	33	39	59	
GREEN R at Green River, UT 2	APR-JUL	905	1320	1600	50	1880	2290	3182	
ELECTRIC LAKE Inflow	APR-JUL	6.6	8.0	9.0	60	10.0	11.4	15.1	
HUNTINGTON CK nr Huntington 2	APR-JUL	21	27	30	55	34	39	55	
COTTONWOOD CK nr Orangeville 2	APR-JUL	11.0	16.0	32	55	49	73	58	
FERRON CK nr Ferron	APR-JUL	11.0	19.0	24	59	29	37	41	
COLORADO R nr Cisco, UT 2	APR-JUL	1360	1920	2300	67	2680	3240	3443	
MILL CK nr Moab	APR-JUL	1.8	2.9	4.5	82	6.1	8.5	5.5	
INDIAN CK nr Monticello	MAR-JUL	2.7	4.2	6.0	72	7.7	10.2	8.3	
SEVEN MILE CK nr Fish Lake	APR-JUL	1.5	2.2	3.8	58	5.4	7.8	6.5	
MUDDY CK nr Emery	APR-JUL	4.2	7.7	12.0	57	16.3	23	21	
LLOYD'S RESV Inflow	MAR-JUL	1.0	1.5	2.6	76	4.1	6.3	3.4	
RECAPTURE RESV Inflow	MAR-JUL	2.0	3.1	4.5	74	5.9	8.0	6.1	
SAN JUAN R nr Bluff, UT 2	APR-JUL	755	985	1140	104	1300	1520	1091	

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF ----- LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.				
HUNTINGTON NORTH	3.9	3.9	3.8	3.8	PRICE RIVER	5	111	75
JOE'S VALLEY	61.6	25.4	34.0	45.6	SAN RAFAEL RIVER	7	125	73
KEN'S LAKE	2.7	1.4	0.9	---	MUDDY CREEK	1	150	65
MILL SITE	16.7	10.6	7.6	4.6	FREMONT RIVER	5	155	73
SCOFIELD	65.8	9.8	13.5	33.3	LASAL MOUNTAINS	2	283	92
					BLUE MOUNTAINS	2	198	86
					WILLOW CREEK - WHITE RIVE	2	142	53
					CARBON, EMERY, WAYNE, GRA	24	141	73

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

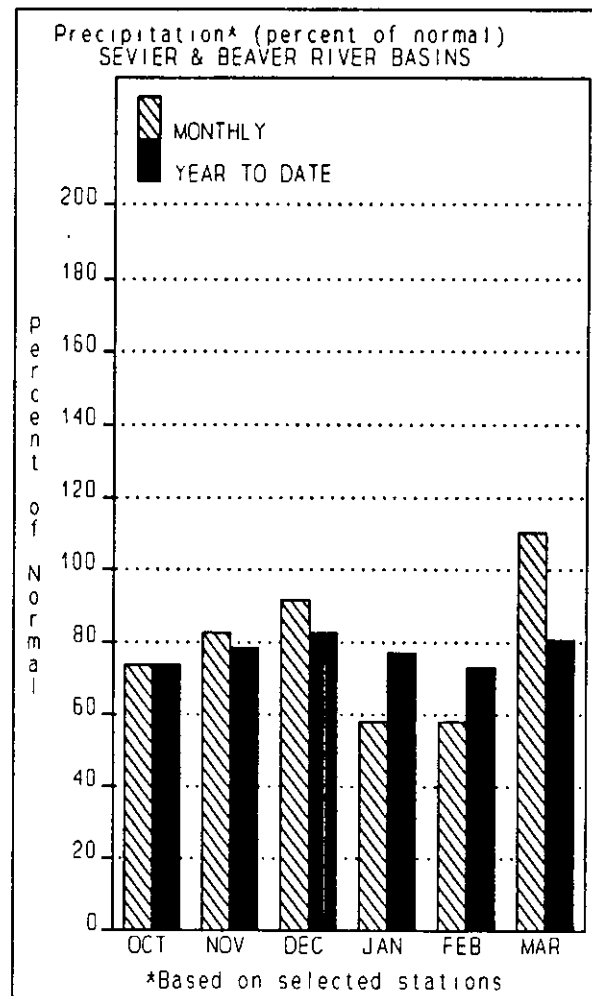
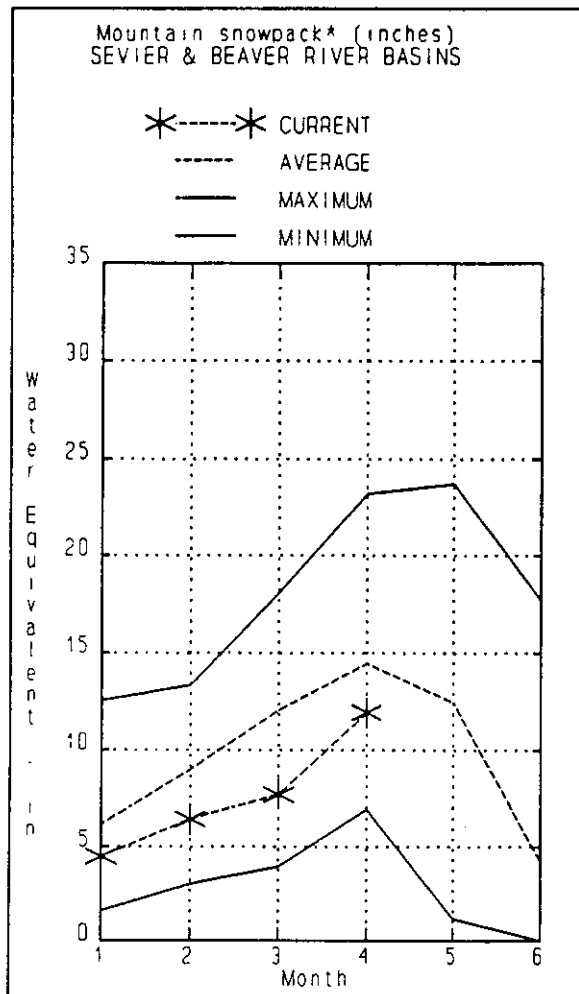
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# SEVIER & BEAVER RIVER BASINS

April 1, 1991



March storms brought the Sevier River snowpack to 82% of average on the first of April. On March first the snowpack was just 64% of normal. This healthy increase was the result of above normal precipitation during March. Rainfall accumulation for the water year now stands at 81% of average. Reservoirs on the Sevier contain 10% less water than normal for the end of March which equates to 55% of combined capacity. Last year at this time they were 67% full. Projected streamflows improved by about 5% since last month and now range from 47% to 68% of average.

# SEVIER & BEAVER RIVER BASINS

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----->		FUTURE CONDITIONS		>----- WETTER ----->		25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	13.0	24	31	60	38	49	52
SEVIER near Circleville	APR-JUL			28	64			44
SEVIER near Kingston	APR-JUL	1.7	6.0	16.0	47	26	41	34
ANTIMONY CREEK near Antimony	APR-JUL			5.5	62			8.9
E F SEVIER near Kingston	APR-JUL	1.0	7.9	13.6	57	19.3	28	24
SEVIER blw Piute Dam	APR-JUL	2.0	12.0	29	52	46	71	56
CLEAR CREEK near Sevier	APR-JUL			12.9	59			22
SIGURD to GUNNISON	APR-JUL	3.0	5.0	23	52	41	68	44
KINGSTON to VERMILLION DAM	APR-JUL			10.7	57			18.9
VERMILLION DAM to GUNNISON	APR-JUN			27	67			40
SALINA CREEK at Salina	APR-JUN			9.8	54			18.2
PLEASANT CREEK near Pleasant	APR-JUL			6.9	60			11.5
EPHRAIM CREEK near Ephraim	APR-JUL			11.8	47			25
SEVIER nr Gunnison	APR-JUL			57	58			99
CHICKEN CREEK near Levan	APR-JUL	0.7	1.5	2.0	57	2.5	3.3	3.5
OAK CREEK near Oak City	APR-JUL	0.2	0.4	1.0	62	1.6	2.5	1.6
CHALK CREEK near Fillmore	APR-JUL	5.3	8.4	10.5	64	12.6	15.7	16.4
BEAVER RIVER near Beaver	APR-JUL	3.2	11.6	17.2	64	23	31	27
NORTH CREEK near Beaver (combined)	APR-JUL	1.8	4.4	10.0	68	15.6	24	14.6
MINERSVILLE RESERVOIR inflow	APR-JUL	1.4	7.1	11.0	66	14.9	21	16.7

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNNISON	20.3	7.8	8.7	16.3	UPPER SEVIER RIVER (south	10	182	84
MINERSVILLE (RkyFd)	26.0	11.1	11.8	14.3	EAST FORK SEVIER RIVER	4	185	75
OTTER CREEK	52.7	30.4	29.7	35.8	SOUTH FORK SEVIER RIVER	6	181	89
PIUTE	71.8	32.7	54.1	46.2	LOWER SEVIER RIVER (inclu	13	104	79
SEVIER BRIDGE	236.0	140.9	169.4	136.2	BEAVER RIVER	2	164	95
PANQUITCH LAKE	22.3	5.8	8.9	---	SEVIER & BEAVER RIVER BAS	25	125	82

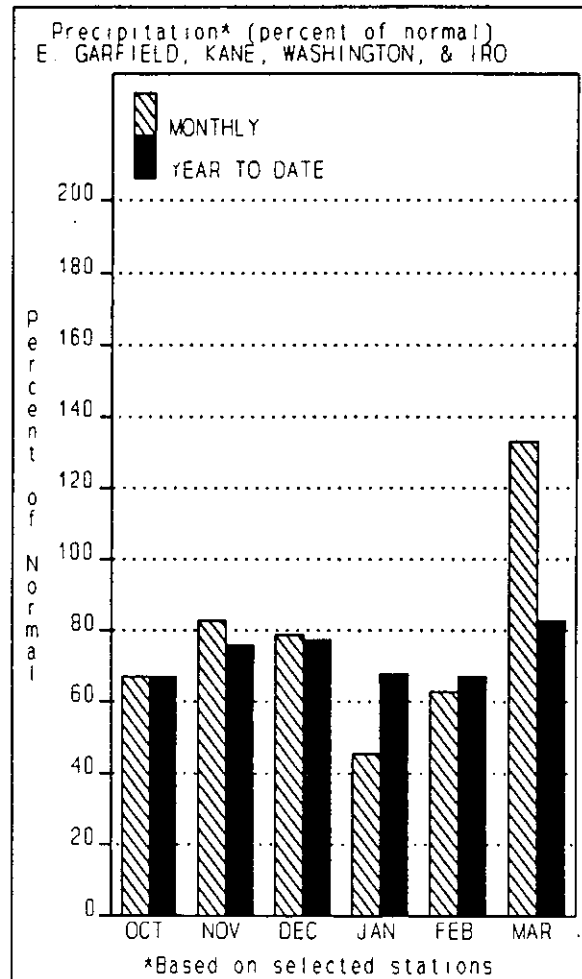
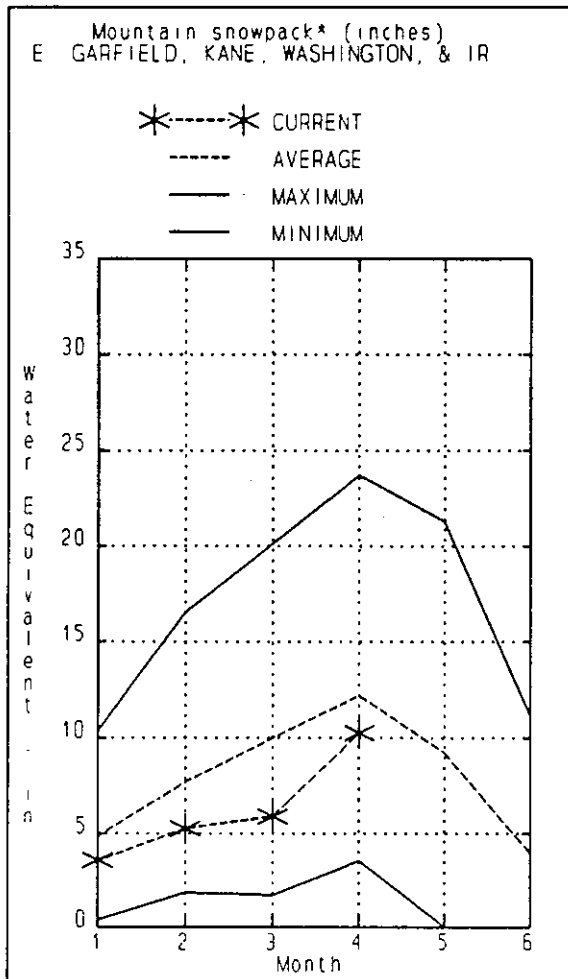
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The average is computed for the 1961-1985 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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# E. GARFIELD, KANE, WASHINGTON, & IRON Co

April 1, 1991



Heavier than normal March precipitation has augmented the snowpack more than normal during the month and cool temperatures have forestalled snow melt and left southwestern Utah with the best snowpack in the State at 85% of average. The snowpack increased more than twice as much as normal during March. Precipitation at mountain stations was 33% above normal with individual stations receiving in excess of 8 inches during March. Gunlock Reservoir is 74% full and Quail Creek Reservoir is 65% filled. Streamflow forecasts have improved by about 8% and now range from 57% to 64% of average for the coming spring and summer.

# E. GARFIELD, KANE, WASHINGTON, & IRON Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
<hr/>								
COAL CK nr Cedar City	APR-JUL	6.7	9.6	11.6	58	13.6	16.5	20
LAKE POWELL Inflow	APR-JUL	2350	3690	4600	57	5510	6850	8086
VIRGIN R nr Hurricane	APR-JUN	19.0	32	41	60	50	63	68
SANTA CLARA R nr Pine Valley	APR-JUN	1.6	2.5	3.2	64	3.9	4.8	5.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF ----- LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
GUNLOCK	10.4	7.7	5.5	---	VIRGIN RIVER	5	184 97
LAKE POWELL	25002.0	15097.0	17919.0	---	PAROWAN	4	143 81
QUAIL CREEK	40.0	26.0	---	---	ENTERPRISE TO NEW HARMONY	2	295 61
UPPER ENTERPRISE	10.0	1.5	---	---	COAL CREEK	3	188 91
LOWER ENTERPRISE	2.6	0.8	---	---	ESCALANTE RIVER	2	120 70
					E. GARFIELD, KANE, WASHIN	14	169 85

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

SNOW COURSE DATA

FOR THE STATE OF UTAH

As of APRIL 1, 1990

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ALTA CENTRAL	8800	3/28	96	33.4	31.9	39.4	DESERET PEAK SNOTEL	9250	4/01	-	15.1S	13.7	27.9
ASHLEY TWIN LAKES	10500	4/03	50	12.5	15.3	17.4	DILL'S CAMP SNOTEL	9200	4/01	42	10.2S	6.8	15.6
BEAVER DAMS	8000	3/30	33	9.1	6.2	12.1	DIRTY HEAD	5400				-	-
BEAVER DAMS SNOTEL	8000	4/01	32	10.2S	7.3	12.1	DONKEY RESERVOIR SNO	9800	4/01	31	5.5S	5.3	7.9
BEAVER DIVIDE SNOTL	8280	4/01	28	9.0S	9.1	12.6	DRY BREAD POND	8350	03/25	44	14.0	10.0	19.5
BEN LOMOND PK SNOTL	8000	4/01	87	31.3S	24.6	42.8	DRY BREAD POND SNOTL	8350	4/01	46	13.1S	12.1	19.5
BEN LOMOND TR SNOTL	6000	4/01	46	17.5S	9.4	20.8	EAST SHINGLE LAKE	9800	4/03	90	28.8	23.8	27.0
BEVAN'S CABIN	6450	3/26	22	7.2	12.2	12.1	EAST WILLOW CREEK SN	8250	4/01	-	6.6S	5.0	11.1
BIG FLAT SNOTEL	10290	4/01	74	16.2S	9.5	19.2	FARMINGTON CANYON L.	6950	3/26	66	21.4	15.8	25.2
BIRCH CROSSING	8100	3/25	14	4.9	2.5	6.7	FARMINGTON CN SNOTEL	8000	4/01	77	28.6S	23.1	32.6
BLACK FLAT-U.M. CK S	9400	4/01	34	6.6S	6.3	11.4	FARNSWORTH LAKE	9600	3/30	63	18.4	15.4	20.6
BLACK'S FORK GS-EF	9340	3/27	34	8.5	8.4	9.7	FARNSWORTH LK SNOTEL	9600	4/01	66	17.6S	14.9	19.4
BLACK'S FORK JUNCTN	8930	3/27	31	6.4	7.6	9.5	FISH LAKE	8700	3/29	28	7.6	2.1	8.7
BOX CREEK SNOTEL	9800	4/01	48	9.7S	7.5	15.6	FIVE POINTS LAKE SNO	10920	4/01	57	15.1S	15.0	13.7
BRIAN HEAD	10000	3/28	70	18.3	13.0	21.7	FRANCES FLATS	6700	4/02	41	15.5	4.6	17.0
BRIGHTON CABIN	8700	4/01	66	23.3	23.0	27.3	G.B.R.C. HEADQUARTER	8700	3/30	53	14.2	14.2	18.3
BRIGHTON SNOTEL	8750	4/01	65	22.6S	24.6	30.6	G.B.R.C. MEADOWS	10000	3/30	66	18.9	18.9	25.0
BROWN DUCK SNOTEL	10600	4/01	63	14.5S	14.9	18.6	GARDEN CITY SUMMIT	7600	3/25	32	9.2	9.1	18.3
BRYCE CANYON	8000	3/28	19	4.5	0.0	4.2	GEORGE CREEK	8840	3/26	55	14.9	16.5	23.2
BUCK FLAT SNOTEL	9800	4/01	50	12.4S	10.5	19.2	GOOSEBERRY R.S.	8400	3/30	41	11.5	9.4	12.8
BUCK PASTURE	9700	4/03	49	12.2	13.8	16.4	GOOSEBERRY R.S. SNOT	7900	4/01	29	8.0S	7.2	13.4
BUCKBOARD FLAT	9000	4/04	37	11.2	6.6	13.1	HARDSCRABBLE	6700	3/26	44	13.8	10.1	19.4
BUG LAKE SNOTEL	7950	4/01	44	15.1S	13.5	23.0	HARRIS FLAT	7700	3/28	39	10.7	3.7	8.7
BURT'S-MILLER RANCH	7900	3/27	16	4.1	2.6	6.0	HARRIS FLAT SNOTEL	7700	4/01	38	9.6S	0.0	7.9
CAMP JACKSON	8600	4/04	36	11.4	4.8	13.1	HAYDEN FORK	9400	3/27	44	12.3	12.8	16.0
CAMP JACKSON SNOTEL	8600	4/01	38	12.1S	5.8	13.1	HAYDEN FORK SNOTEL	9100	4/01	44	13.0S	12.9	20.0
CASTLE VALLEY	9580	3/28	48	12.2	7.2	13.5	HENRY'S FORK	10000	4/03	47	11.8	11.7	14.0
CASTLE VALLEY SNOTL	9580	4/01	49	12.1S	8.1	15.7	HEWINTA SNOTEL	9500	4/01	36	9.3S	10.5	9.7
CHALK CK #1 SNOTEL	9100	4/01	71	22.7S	18.4	24.0	HICKERSON PARK SNOTE	9100	4/01	24	5.3S	7.0	7.2
CHALK CK #2 SNOTEL	8200	4/01	48	14.6S	14.5	16.1	HIDDEN SPRINGS	5500	3/27	3	1.0	0.0	4.3
CHALK CREEK #3	7500	3/27	19	5.8	4.6	7.8	HOBBLE CREEK SUMMIT	7420	4/01	37	10.9	11.0	14.8
CHEPETA SNOTEL	10300	4/01	50	14.6S	16.5	13.1	HOLE-IN-ROCK SNOTEL	9150	4/01	29	6.1S	6.7	6.1
CITY CREEK	7500	4/02	63	23.7	13.6	28.3	HORSE RIDGE SNOTEL	8260	4/01	53	22.3S	16.5	24.9
CLEAR CK RIDG #1 SNT	9200	4/01	60	18.7S	18.3	19.1	HUNTINGTON-HORSESHOE	9800	3/30	62	18.7	17.6	26.1
CLEAR CK RIDG #2 SNT	8000	4/01	53	14.8S	11.9	15.5	INDIAN CANYON SNOTEL	9100	4/01	42	8.5S	10.3	12.9
CLEAR CREEK MEADOWS	9420	3/26	54	15.4	16.4	24.1	JOHNSON VALLEY	8850	3/30	30	6.5	2.2	7.5
CLEAR CREEK RIDGE #3	6600	3/30	17	6.5	4.4	6.1	KILFOIL CREEK	7300	3/25	42	10.5	11.0	14.8
COLD WATER SPRINGS	6030				-	-	KILLYON CANYON	6300	3/28	13	5.9	0.0	2.8
CORRAL	8200	3/30	28	7.4	3.2	10.0	KIMBERLY MINE SNOTEL	9300	4/01	60	15.8S	11.5	19.0
CURRENT CREEK SNOTEL	8000	4/01	25	6.7S	7.8	11.6	KING'S CABIN SNOTEL	8730	4/01	38	9.1S	8.6	12.6
DANIELS-STRAWBERRY S	8000	4/01	38	12.4S	12.3	18.2	KLONDIKE NARROWS	7400	3/25	40	12.6	10.2	20.7
DESERET PEAK	9250	4/02	48	14.6S	12.9	27.9	KOLOB SNOTEL	9250	4/01	91	22.3S	13.6	24.4
DESERET PEAK AM	9250	3/26	48	12.5	10.9	-	LAKEFORK #1 SNOTEL	10100	4/01	46	12.7S	11.3	11.6

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
LAKEFORK BASIN SNOTE	10900	4/01	61	15.55	16.1	15.7	REDDEN MINE LOWER	8500	3/26	50	13.7	15.1	18.8
LAKEFORK MOUNTAIN #3	8400	4/01	28	7.3	6.2	6.2	REES'S FLAT	7300	3/28	38	10.6	10.0	13.8
LAMBS CANYON	7400	3/27	46	14.7	12.3	16.8	ROCK CREEK SNOTE	7900	4/01	30	8.25	6.2	6.7
LASAL MOUNTAIN LOWER	8800	4/05	33	10.2	4.1	10.1	ROCKY BASIN-SETTLEMENT	8900	3/26	64	18.8	22.4	29.1
LASAL MOUNTAIN SNOTE	9850	4/01	44	14.45	4.6	16.7	ROCKY BN-SETTLEMENT SN	8900	4/01	60	14.75	19.5	24.1
LILY LAKE SNOTE	9050	4/01	42	10.35	11.6	13.8	SEELEY CREEK SNOTE	10000	4/01	36	10.65	9.1	16.4
LITTLE BEAR LOWER	6000	3/26	17	5.8	-	10.2	SHINGLE MILL	6200	3/28	18	6.3	10.5	9.5
LITTLE BEAR SNOTE	6550	4/01	21	9.05	2.9	16.4	SILVER LAKE(BRIGHT.)	8730	3/28	64	21.4	22.8	26.3
LITTLE GRASSY CREEK	6100	3/28	8	1.8	0.0	2.3	SMITH MOREHOUSE SNTL	7600	4/01	40	12.05	13.8	15.4
LITTLE GRASSY SNOTE	6100	4/01	-	0.05	0.0	2.3	SNOWBIRD GAD VALLEY	9700	3/29	108	31.4	31.4	34.9
LONG FLAT SNOTE	8000	4/01	25	4.45	2.1	7.9	SNOWBIRD SNOTE	9700	4/01	-	30.95	32.0	-
LONG VALLEY JCT.	7500	3/28	12	3.6	0.0	3.6	SPIRIT LAKE	10300	3/27	46	9.8	13.1	13.5
LONG VALLEY JCT. SNT	7500	4/01	15	4.75	0.0	3.6	SQUAW SPRINGS	9300	3/29	27	6.7	1.8	7.6
LOOKOUT PEAK SNOTE	8200	4/01	69	20.45	16.6	27.0	STEEL CREEK PARK SNO	10100	4/01	52	12.35	12.3	16.5
LOST CREEK RESERVOIR	6130	3/25	1	0.8	.0	4.0	STILLWATER CAMP	8550	3/27	37	9.0	9.1	11.0
MAMMOTH-COTTONWOOD SNT	8800	4/01	58	19.65	16.5	22.5	STRAWBERRY DIVIDE SN	8400	4/01	46	15.95	14.0	20.2
MAMMOTH-COTTONWOOD	8800	3/30	63	18.1	16.8	22.6	STUART R.S.	7950	3/30	23	7.0	0.7	8.2
MERCHANT VALLEY SNOT	8750	4/01	60	13.55	8.6	12.1	SUSC RANCH	8200	3/25	17	6.1	0.2	7.9
MIDDLE CANYON	7000	3/26	32	9.8	12.0	15.0	TALL POLES	8800	3/25	42	11.9	9.3	15.5
MIDWAY VALLEY	9800	3/28	82	20.4	13.3	23.6	THAYNES CANYON SNOTE	9200	4/01	-	19.05	20.9	23.0
MIDWAY VALLEY SNOTE	9800	4/01	86	21.35	15.8	23.7	THISTLE FLAT	8500	3/30	48	12.2	15.2	17.8
MILL CREEK	6950	3/27	54	16.9	15.2	22.0	TIMBERLINE	9100	3/30	44	10.7	9.4	15.6
MILL-D NORTH SNOTE	8960	4/01	62	19.65	19.5	27.8	TIMPANOGOS DIVIDE SN	8140	4/01	62	18.35	22.4	24.6
MILL-D SOUTH FORK	7400	3/28	51	16.1	14.5	20.3	TONY GROVE LK SNOTE	8400	4/01	79	28.35	24.6	39.2
MINING FORK SNOTE	8000	4/01	48	13.25	10.5	26.9	TONY GROVE R.S.	6250	3/25	26	8.8	2.8	12.1
MONTE CRISTO R.S.	8960	3/25	58	18.1	14.5	25.8	TRIAL LAKE	9960	4/01	64	19.4	19.0	24.7
MONTE CRISTO SNOTE	8960	4/01	66	26.15	22.2	30.6	TRIAL LAKE SNOTE	9960	4/01	68	18.85	17.8	24.3
MOSBY MTN. SNOTE	9500	4/01	47	11.75	10.1	11.7	TROUT CREEK SNOTE	9400	4/01	37	10.15	12.6	11.6
MT. BALDY R.S.	9500	3/30	70	19.4	17.1	25.0	UPPER JOES VALLEY	8900	3/30	33	8.8	6.4	10.9
MUD CREEK #2	8600	3/30	44	11.1	11.8	13.9	UPPER MILL CREEK	8300					
OAK CREEK	7760	3/28	42	9.1	11.2	12.5	VERNON CREEK SNOTE	7500	4/01	35	9.55	5.7	12.3
ONE MILE SUMMIT	7330	3/26	12	2.7	3.9	7.7	VIPONT	7670	3/27	31	8.7	9.1	16.5
OTTER LAKE	9600					14.9	WEBSTER FLAT SNOTE	9200	4/01	52	17.45	9.9	16.5
PANQUITCH LAKE	8200	3/28	9	2.0	0.0	4.5	WHITE RIVER #1 SNOTE	8550	4/01	40	10.05	10.4	14.4
PARLEY'S CANYON SNOT	7500	4/01	42	16.05	11.7	20.9	WHITE RIVER #3	7400	3/30	22	6.9	6.7	7.3
PARLEY'S CANYON SUM.	7500	3/27	52	16.1	13.3	19.2	WIDISOE #3 SNOTE	9500	4/01	44	9.25	7.0	13.0
PAYSON R.S.	8050	3/28	54	15.3	16.3	19.7	WRIGHT CREEK	9000	3/30	35	7.7	7.4	11.9
PAYSON R.S. SNOTE	8050	4/01	52	16.85	19.5	23.7	YANKEE RESERVOIR	8700	3/28	38	8.9	5.9	10.4
PICKLE KEG SNOTE	9600	4/01	55	16.45	10.7	19.1							
PICKLE KEG SPRING	9600	3/30	51	14.5	10.5	17.2							
PINE CREEK	8800	3/28	50	14.5	15.0	17.2							
PINE CREEK SNOTE	8800	4/01	58	20.05	21.4	19.6							
RED PINE RIDGE SNOTE	9200	4/01	52	16.75	13.8	19.5							

NOTE: The s flag following Water Content for SNOTE sites indicates telemetered data, the Depth reading preceeding s flagged data was measured around the snow pillows at the time of the ground survey and may not be the same date as the telemetered value.



# STATE OF UTAH GENERAL OUTLOOK

MAY 1, 1991

## SUMMARY

Heavy precipitation along the Wasatch Front during April has received much attention in the media and the numbers have been impressive. The overall water supply outlook has improved only slightly from last month however. Our snowpack is still generally below average as is the total precipitation for the water year. Our reservoirs are half full and releases are being made or will be made soon to satisfy demands. Streamflow forecasts remain below to much below average for this season and we are in the fifth consecutive below average water year. There will be areas with adequate water supplies but many Utahns will still feel the pinch of water shortages.

## SNOWPACK

May first snow water content is 86% of average. This marks the fifth consecutive year with below normal snowpack on the first of May for the State as a whole and the seventh and eighth consecutive deficient May first in southeastern and southwestern Utah respectively. Northern Utah received abundant snowfall during the month of April and cooler than normal temperatures held melt to less than half of normal during the month. Southern Utah, on the other hand, received below normal mountain precipitation during April. Southeastern Utah and the Sevier River basin had only 62% of normal melt during April which helped to keep the snowpack percent of normal higher than would have otherwise been the case. Southwestern Utah had nearly 50% more snow water loss to melt than normal for the month of April. The Uinta mountains actually had a net increase in water content during April for the first time since 1984.

## PRECIPITATION

Northern Utah mountain precipitation stations received above normal rainfall for the month of April while southern stations received below normal quantities. Overall, the State received near normal precipitation during the month--102%. Watersheds draining into the Great Salt Lake through the Provo-Jordan River system and Tooele Valley recorded the greatest rainfall with 124% of normal while southwestern Utah received the least with only 51% of normal April precipitation.

Mountain precipitation for the water year now stands at 83% with totals ranging from 76% of normal in southeastern Utah to 88% of normal in the Utah Lake, Jordan River and Tooele Valley area.

Precipitation stations monitored by the National Weather Service report a similar rainfall pattern--wet in the north and dry in the south--during April. Precipitation ranged from 105% to 130% in northern Utah and from 45% to 75% in southern Utah for the month.

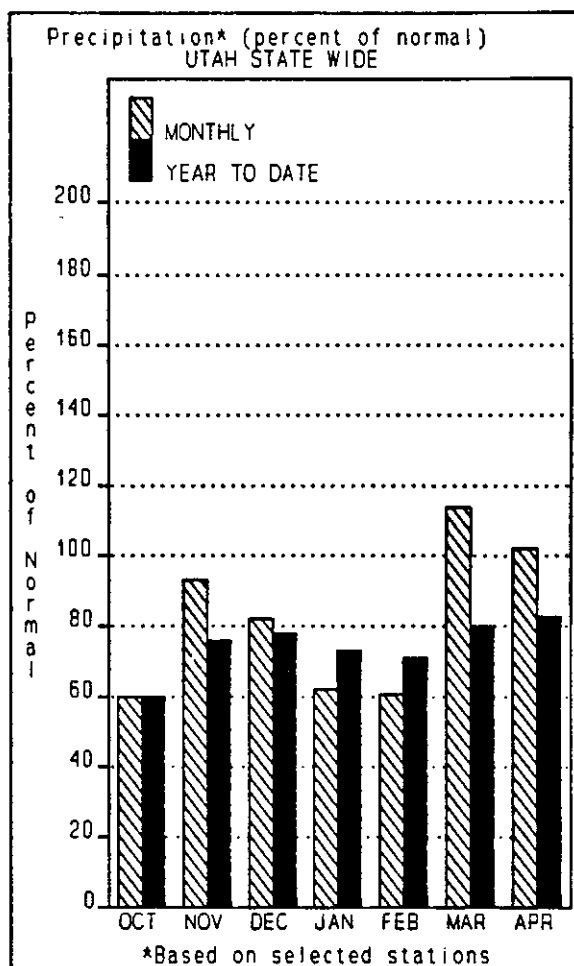
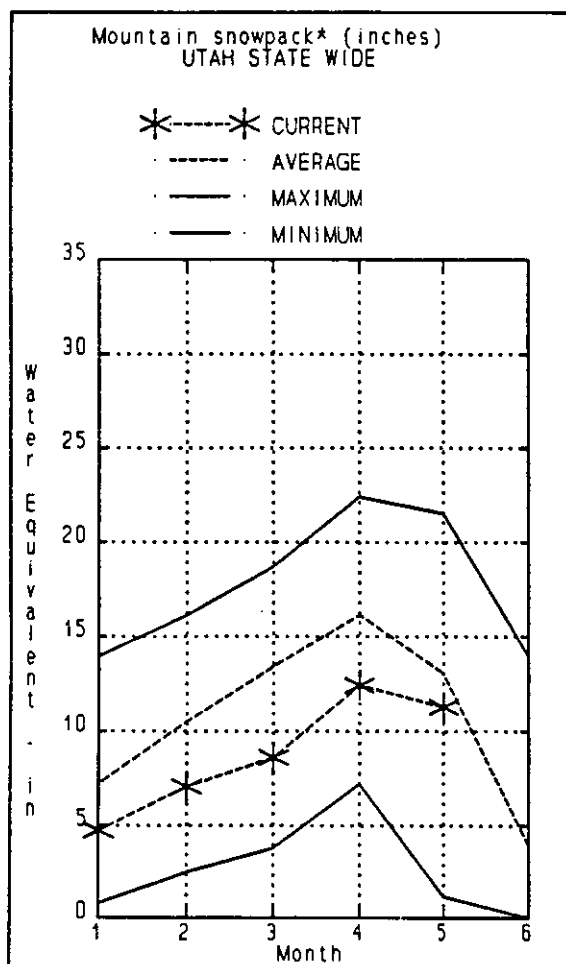
Seasonal totals (October through April) remain below average ranging from 70% to 85% in the north and the south.

## RESERVOIRS

Reservoir contents as of the end of April this year are only 51% of capacity. Last year the same reservoirs had 65% of their cumulative capacity filled. Normally by this time of the year only 25% of capacity would remain to be filled. Storage this year is only 68% of the end of April average. Individual reservoirs in our sample range from Scofield at 20% full to Hyrum, Vernon and Huntington North which are full. Streamflow projections have improved again this month but will not be adequate to fill many of the reservoirs in the State.

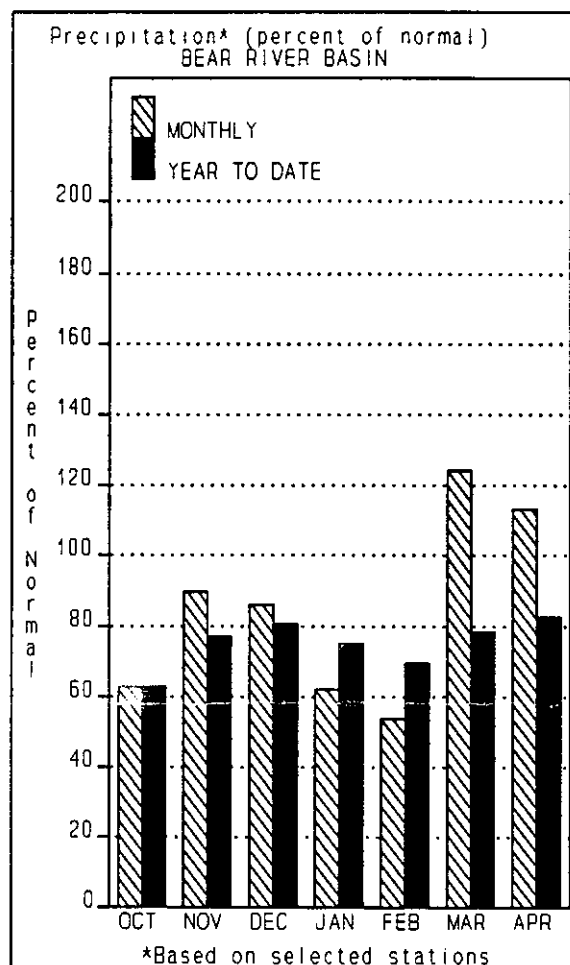
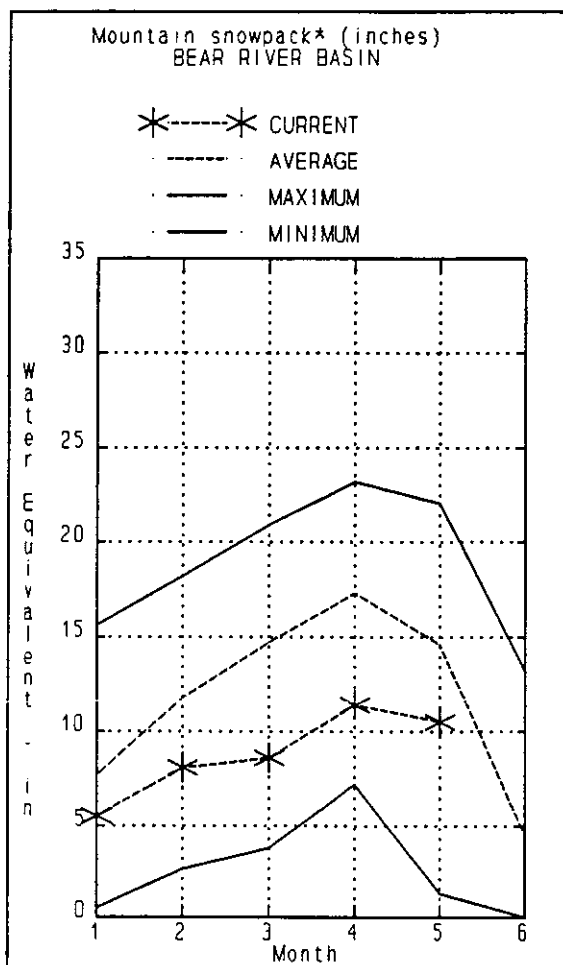
## STREAMFLOW

Forecasts of spring and summer streamflow for the approaching irrigation season are slightly better than those released at the end of March except in southwestern Utah where they are unchanged. Increases range from 2% to 7% for the remainder of the State with the Jordan River tributaries east of the Salt Lake Valley showing the greatest degree of improvement. Forecasts for streams in the Colorado River basin and originating in the Uintas are generally the best in the State while the Bear River basin forecasts are the lowest. Forecasts range from 44% for the Bear near Randolph to 93% of the April through July average for the San Juan near Bluff with the average forecast for the State at only 64% of normal.



# BEAR RIVER BASIN

MAY 1, 1991



The snowpack on the Bear River watershed lost less than one-third the normal water content to melt during April leaving May first snowpack at 72% of normal--264% of last year. April precipitation at mountain stations was 13% above normal bringing the water year accumulation to 83% of average. Bear Lake has only 37% of capacity filled. Hyrum Reservoir is full. Streamflow forecasts are up slightly from last month. Forecasts range from the low for the State on the Bear near Randolph at 44% to 69% for the Bear near the UT-WY stateline.

## BEAR RIVER BASIN

### STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BEAR RIVER nr Ut-Wy Stateline	APR-JUL	63	73	80	69	87	97	116
BEAR near Woodruff (2)	APR-JUL	3.0	52	90	60	128	184	150
WOODRUFF CREEK near Woodruff	APR-JUL	6.3	9.0	10.8	62	12.6	15.3	17.3
BIG CREEK near Randolph	APR-JUL	0.1	1.8	3.2	60	4.6	6.7	5.3
BEAR near Randolph	APR-JUL	8.0	24	55	44	86	131	126
SMITHS FORK near Border, WY	APR-SEP	52	64	72	63	80	92	115
THOMAS FORK near Wy-Id Stateline	APR-SEP	13.0	19.0	23	62	27	33	37
BEAR RIVER near Harer	APR-SEP	24	116	178	57	240	330	310
BEAR RIVER blw Stewart Dam (2)	APR-SEP	66	122	160	54	198	255	298
CUB RIVER nr Preston	MAY-JUL	6.0	19.0	28	61	37	50	46
LITTLE BEAR RIVER near Paradise	APR-JUL	3.0	16.0	25	55	34	47	46
LOGAN RIVER near Logan	APR-JUL	46	63	75	61	87	104	122
BLACKSMITH FORK near Hyrum	APR-JUL	15.0	27	35	62	43	55	57

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
BEAR LAKE	1421.0	530.3	758.7	1059.0	BEAR RIVER, UPPER (above	12	210	79
HYRUM	15.3	15.6	15.3	13.2	BEAR RIVER, LOWER (below	13	413	64
PORCUPINE	11.3	9.0	8.0	9.5	LOGAN RIVER	5	341	70
WOODRUFF NARROWS	55.8	27.2	23.1	---	BEAR RIVER DRAINAGE	25	264	72
WOODRUFF CREEK	4.0	3.4	4.0	---	RAFT RIVER	0	0	0
					BEAR RIVER BASIN	25	264	72

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

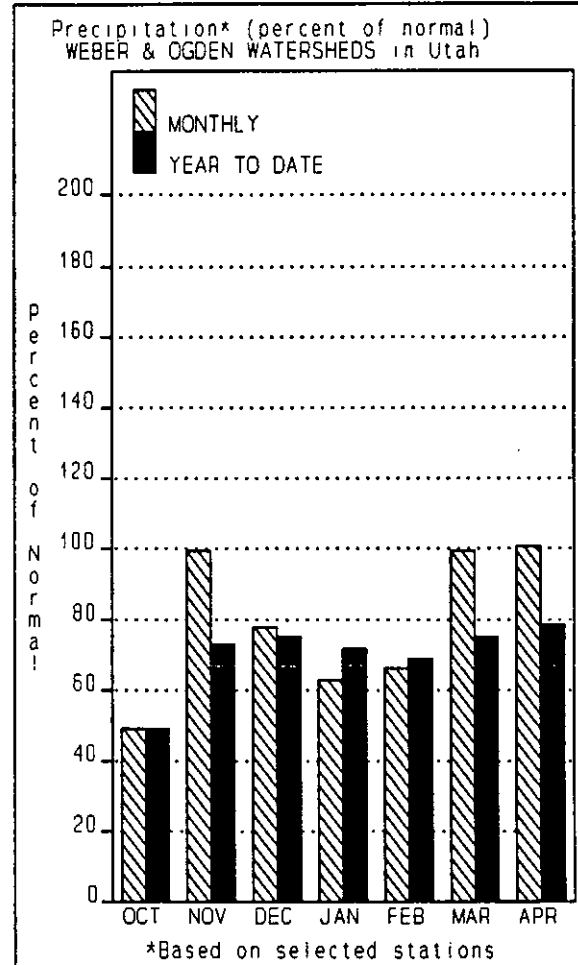
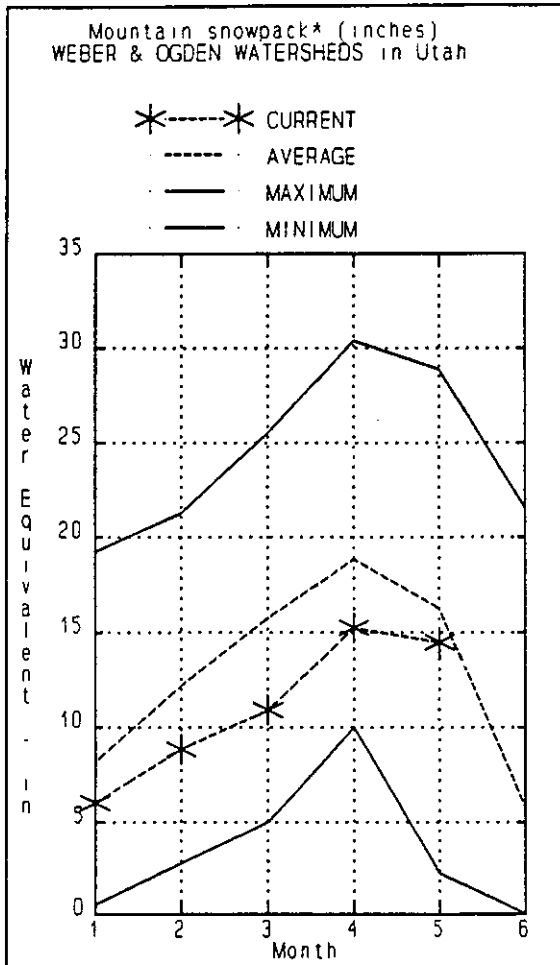
The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# WEBER & OGDEN WATERSHEDS in Utah

MAY 1, 1991



Snowmelt accounted for only 40% of normal snow water loss during April. May first snowpack is 89% of average. Mountain precipitation was slightly better than average during April bringing the total for the water year to 79% of normal. Weber Basin reservoirs contain 61% of their combined capacity. Last year 78% of capacity was filled at this time in the season. Projections of streamflow this spring and summer have improved again this month but still only average 67% of normal and not enough to fill all of the reservoirs.

# **WEBER & OGDEN WATERSHEDS in Utah**

## **STREAMFLOW FORECASTS**

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						
		CHANCE OF EXCEEDING *						25 YR. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SMITH AND MOREHOUSE CREEK near Oakley	APR-JUN	16.0	20	22	73	25	28	30
WEBER RIVER near Oakley	APR-JUL	68	78	84	67	90	100	125
ROCKPORT RESERVOIR inflow	APR-JUL	70	81	88	65	95	106	136
CHALK CREEK at Coalville, Ut	APR-JUL	17.0	25	30	67	35	43	45
WEBER RIVER near Coalville, Ut	APR-JUL	73	86	95	67	104	117	142
ECHO RESERVOIR inflow	APR-JUL	74	99	115	66	132	156	174
LOST CREEK Res inflow	APR-JUL	4.3	8.5	11.3	62	14.1	18.3	18.3
EAST CANYON CREEK near Morgan	APR-JUL	10.0	15.4	19.0	61	23	28	31
HARDSCRABBLE CREEK near Porterville	APR-JUN	3.6	9.2	13.0	71	16.8	22	18.4
WEBER RIVER at Gateway	APR-JUL	171	210	240	64	270	310	374
S FORK OGDEN RIVER nr Huntsville	APR-JUL	33	40	44	67	48	55	66
PINEVIEW RESERVOIR inflow	APR-JUL	69	87	100	63	113	131	159
WHEELER CREEK near Huntsville	APR-JUL	2.8	3.7	4.4	68	5.1	6.0	6.5
FARMINGTON CREEK near Farmington	APR-JUL	1.8	4.3	6.0	73	7.7	10.2	8.2

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
CAUSEY	7.1	5.6	6.2	2.6	OGDEN RIVER	4	421	72	
EAST CANYON	48.1	32.3	39.4	41.5	WEBER RIVER	15	240	95	
ECHO	73.9	48.2	66.3	54.2	WEBER & OGDEN WATERSHEDS	19	266	89	
LOST CREEK	22.5	12.1	17.0	14.3					
PINEVIEW	110.1	60.8	82.1	76.6					
ROCKPORT	60.9	38.2	42.8	36.8					
WILLARD BAY	185.0	111.6	143.0	139.7					

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

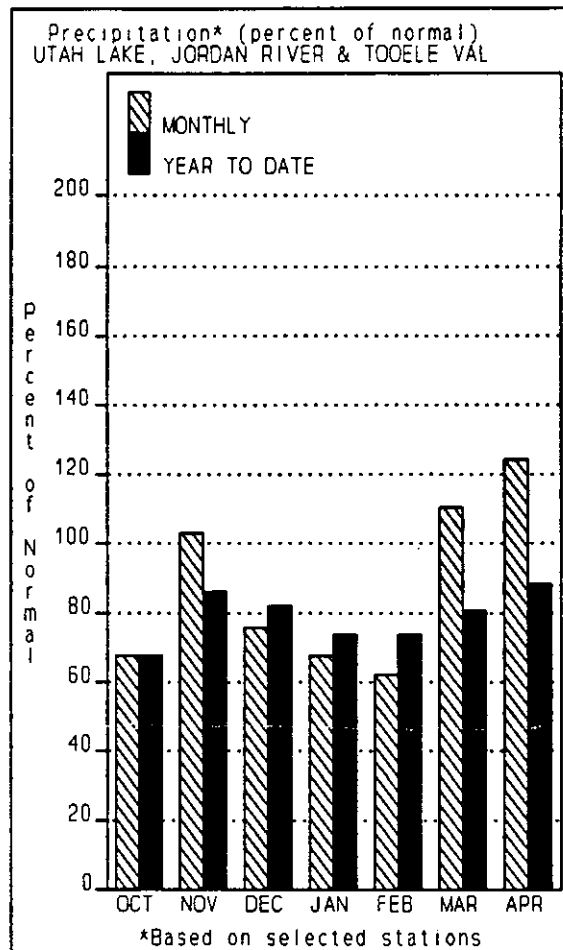
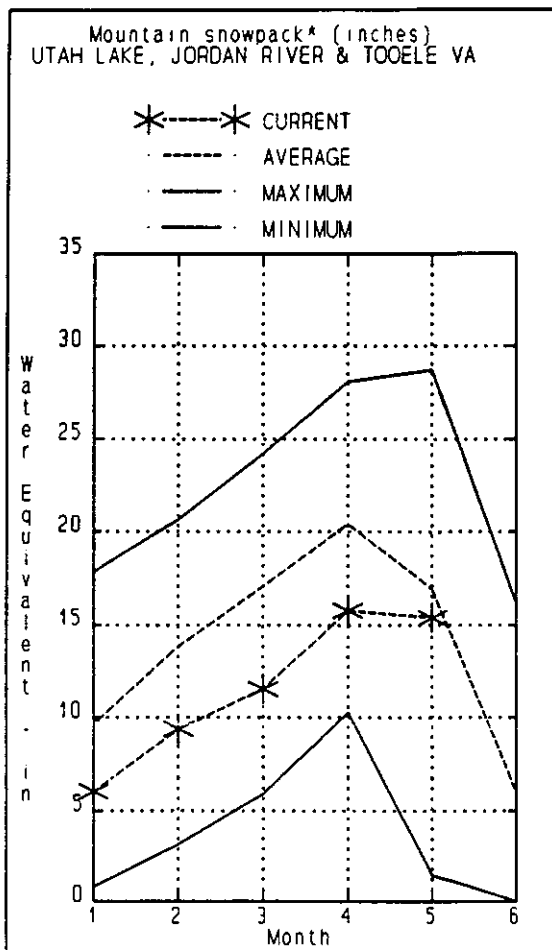
The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

MAY 1, 1991



The snowpack in this area of Utah lost only one-tenth normal water to snowmelt this April. In addition to minimal melt, above normal mountain precipitation during the month brought the snowpack to 95% of normal as of May first (288% of last year). Mountain precipitation during April was the best in the State with the three stations in the Oquirrh Mountains west of the Salt Lake Valley capturing the honors as the first, second and third highest readings in our network for the month (8 to 10 inches each). Reservoir storage is not quite as rosy with Utah Lake at 57% of capacity and filling Deer Creek still questionable. Streams are forecast to run just 56% to 69% of average this spring and summer.

# UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SALT CREEK near Nephi	APR-JUL	0.3	4.3	8.4	62	12.5	18.5	13.5
PAYSON CREEK near Payson	APR-JUL	3.4		4.7	64		6.2	7.3
SPANISH FORK near Castilla	APR-JUL	25		48	60		71	80
HOBBLE CREEK near Springville	APR-JUL	8.9		14.0	60		18.4	23
PROVO near Hailstone	APR-JUL	48	64	75	66	86	102	113
PROVO below Deer Creek Dam	APR-JUL	44	69	86	65	103	128	133
AMERICAN FORK near American Fk.	APR-JUL	16.0	20	22	65	24	28	34
UTAH LAKE inflow	APR-JUL	74	146	194	66	240	315	295
LITTLE COTTONWOOD CRK near SLC	APR-JUL	24	27	28	68	30	32	41
BIG COTTONWOOD CRK near SLC	APR-JUL	22	25	27	69	29	32	39
PARLEY'S CREEK near SLC	APR-JUL	5.3	8.9	11.3	66	13.7	17.3	17.0
MILL CREEK near SLC	APR-JUL	4.0	4.3	4.6	67	4.9	5.2	6.9
EMIGRATION CREEK near SLC	APR-JUL	1.7		2.6	57		5.2	4.6
CITY CREEK near SLC	APR-JUL	3.7	4.5	5.0	56	5.5	6.3	9.0
VERNON CREEK near Vernon	APR-JUN	0.1	0.5	0.8	67	1.1	1.5	1.2
SETTLEMENT CREEK near Tooele	APR-JUL	0.1	0.9	1.5	65	2.1	2.9	2.3
SOUTH WILLOW CREEK near Grantsville	APR-JUL	0.2	1.0	1.7	57	2.4	3.5	3.0

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
DEER CREEK	149.6	119.9	139.2	106.9	PROVO RIVER & UTAH LAKE	9	223	83
GRANTSVILLE	3.3	1.8	2.0	---	PROVO RIVER	4	166	68
SETTLEMENT CREEK	1.0	0.8	0.8	0.7	JORDAN RIVER & GREAT SALT	14	305	103
STRAWBERRY-ENLARGED	951.4	477.9	361.8	---	TOOELE VALLEY WATERSHEDS	6	332	88
UTAH LAKE	855.5	491.4	603.1	766.8	UTAH LAKE, JORDAN RIVER &	29	288	95
VERNON CREEK	0.6	0.6	---	0.6				

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

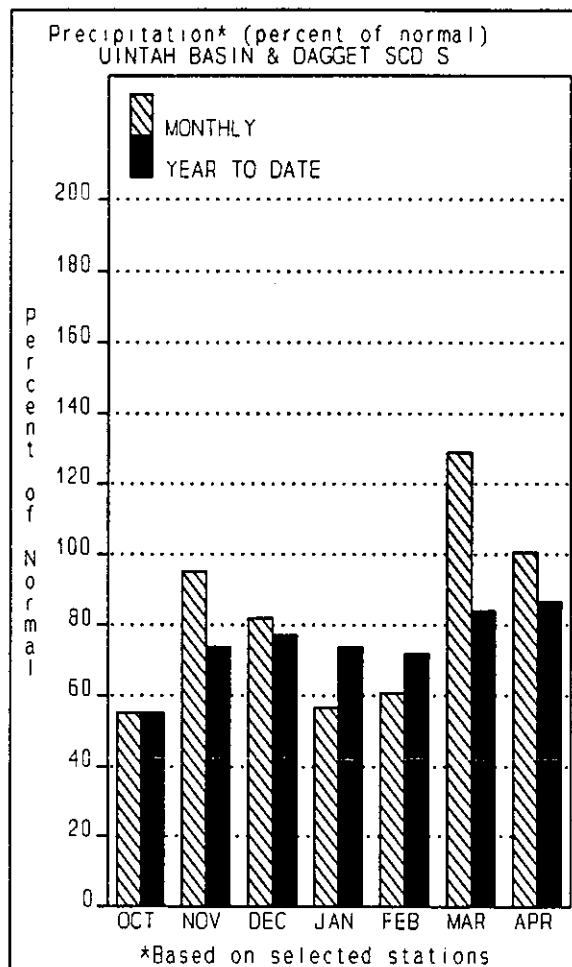
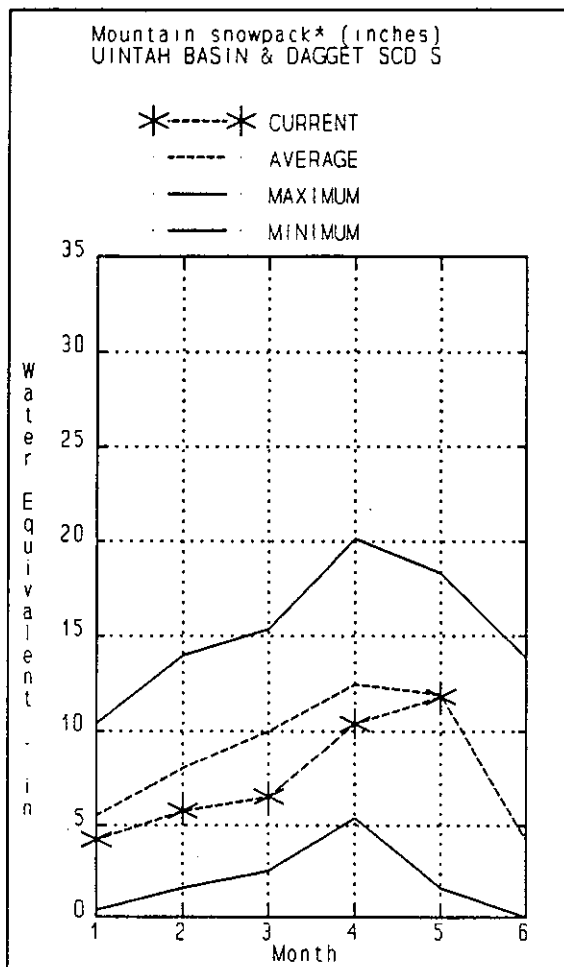
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# UINTAH BASIN & DAGGET SCD'S

MAY 1, 1991



Cool temperatures and frequent storminess combined to give the Uintas a net increase in snow water content from the level measured last month. Not since 1984 has the snowpack increased from April first to May first. May first water content is the best in the State at 99% of average. Precipitation at mountain stations was slightly above average for the month bringing the total accumulation for the water year to 87% of normal. Uintah Basin reservoirs are holding 70% of capacity which is above average for the end of April. Streamflow forecasts are up an average of 5% from last month and now range from 55% of normal to 85% of normal for the April through July forecast period.

# UINTAH BASIN & DAGGET SCD'S

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
MEEKS CABIN RESV Inflow	APR-JUL	56	69	78	81	87	100	96
STATE LINE RESV Inflow	APR-JUL	17.0	21	24	80	27	31	30
HENRY'S FORK nr Manila	APR-JUL	19.0	25	30	67	35	41	45
FLAMING GORGE RESV Inflow 2	APR-JUL	485	615	700	55	785	915	1267
BIG BRUSH CK abv Red Fleet Resv	APR-JUL	6.8	11.7	15.0	75	18.3	23	19.9
ASHLEY CK nr Vernal 2	APR-JUL	33	38	42	81	46	51	52
WF DUCHESNE R nr Hanna	APR-JUL	13.4	16.1	18.0	64	19.9	23	28
DUCHESNE R nr Tabiona	APR-JUL	62	70	75	68	80	88	110
UPPER STILLWATER RESV Inflow	APR-JUL	51	60	65	79	71	79	82
ROCK CK nr Mountain Home	APR-JUL	55	67	75	79	83	95	95
DUCHESNE R abv Knight Diversion	APR-JUL	114	130	140	74	151	166	190
STRAWBERRY R nr Soldier Springs 2	APR-JUL	30	37	42	69	47	54	61
CURRENT CK nr Fruitland 2	APR-JUL	10.5	12.6	14.0	61	15.4	17.5	23
STRAWBERRY R nr Duchesne (incl Straw	APR-JUL	56	65	72	60	79	88	121
STARVATION RESV Inflow (w/o Strawber	APR-JUL	29	34	38	57	42	47	67
LAKEFORK R blw Moon Lake 2	APR-JUL	47	54	58	82	62	69	71
YELLOWSTONE R nr Altonah	APR-JUL	38	49	56	85	63	74	66
DUCHESNE R at Myton 2	APR-JUL	89	134	165	60	196	240	275
UINTA R nr Neola	APR-JUL	42	62	75	85	88	108	88
WHITEROCKS R nr Whiterocks	APR-JUL	34	44	51	85	58	68	60
DUCHESNE R nr Randlett 2	APR-JUL	77	109	200	59	290	425	340

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
FLAMING GORGE	3749.0	3090.7	2998.3	---	UPPER GREEN RIVER in UTAH	12	204	108
MOON LAKE	49.5	26.9	32.4	31.8	ASHLEY CREEK	2	334	102
RED FLEET	26.0	18.3	16.9	---	BLACK'S FORK RIVER	3	219	95
STEINAKER	33.3	12.6	10.1	23.0	SHEEP CREEK	2	159	97
STARVATION	165.3	134.9	135.8	113.5	DUCHESNE RIVER	12	132	89
STRAWBERRY-ENLARGED	951.4	477.9	361.8	---	LAKE FORK-YELLOWSTONE CRE	5	97	92
					STRAWBERRY RIVER	4	481	59
					UINTAH-WHITEROCKS RIVERS	2	144	127
					UINTAH BASIN & DAGGET SCD	24	164	99

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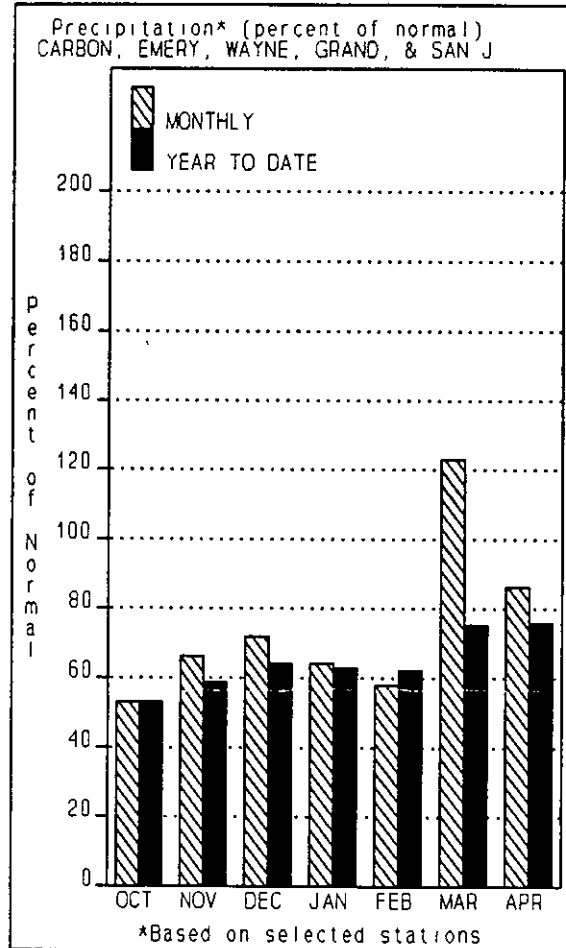
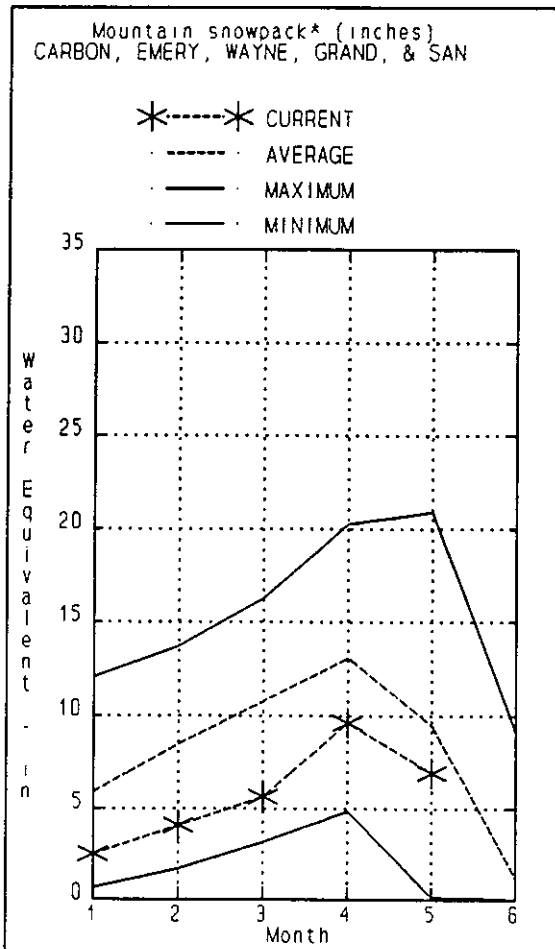
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN CO

MAY 1, 1991



The snowpack in southeastern Utah ranges from 46% of the May first average on the Bookcliffs to 89% of average on the Price River. This is 361% of last year. Melt was less than normal during April but so was mountain precipitation. Precipitation for the month was 86% of normal. Water year precipitation now stands at 76% of normal (lowest in the State). Area reservoir storage ranges from 20% of capacity in Scofield to full at Huntington North. Streamflow forecasts for this irrigation season now range from 53% for the Green River at Green River to 93% for the San Juan near Bluff. Streams which originate in Utah are generally forecast in the 60% to 80% range.

# CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<----- DRIER ----- FUTURE CONDITIONS ----- WETTER ----->						25 YR. (1000AF)
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
GOOSEBERRY CK nr Scofield	APR-JUL	5.2	6.7	7.8	65	8.9	10.4	12.0
SCOFIELD RESV Inflow	APR-JUL	23	27	30	65	33	37	46
PRICE R nr Heiner 2	APR-JUL	29	34	38	64	42	47	59
GREEN R at Green River, UT 2	APR-JUL	1100	1460	1700	53	1940	2300	3182
ELECTRIC LAKE Inflow	APR-JUL	8.2	9.6	10.5	70	11.4	12.8	15.1
HUNTINGTON CK nr Huntington 2	APR-JUL	29	34	37	67	40	45	55
COTTONWOOD CK nr Orangeville 2	APR-JUL	15.0	24	38	66	52	73	58
FERRON CK nr Ferron	APR-JUL	13.0	20	25	61	30	37	41
COLORADO R nr Cisco, UT 2	APR-JUL	1830	2290	2600	76	2910	3370	3443
MILL CK nr Moab	APR-JUL	1.9	3.4	4.5	82	5.6	7.1	5.5
INDIAN CK nr Monticello	MAR-JUL	1.2	3.5	5.0	60	6.5	8.8	8.3
SEVEN MILE CK nr Fish Lake	APR-JUL	1.7	2.9	4.3	66	5.7	7.8	6.5
MUDDY CK nr Emery	APR-JUL	5.2	8.7	13.0	62	17.3	24	21
LLOYD'S RESV Inflow	MAR-JUL	0.8	1.3	2.0	59	3.4	5.5	3.4
RECAPTURE RESV Inflow	MAR-JUL	1.6	2.7	4.0	66	5.3	7.2	6.1
SAN JUAN R nr Bluff, UT 2	APR-JUL	715	900	1020	93	1140	1320	1091

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
HUNTINGTON NORTH	3.9	4.1	3.7	3.9	PRICE RIVER	3	432 89
JOE'S VALLEY	61.6	25.0	34.4	46.8	SAN RAFAEL RIVER	7	233 88
KEN'S LAKE	2.7	1.5	0.8	---	MUDDY CREEK	1	2175 69
MILL SITE	16.7	10.9	9.9	6.3	FREMONT RIVER	5	489 71
SCOFIELD	65.8	13.0	20.5	36.6	LASAL MOUNTAINS	2	1700 55
					BLUE MOUNTAINS	2	708 58
					WILLOW CREEK - WHITE RIVE	2	0 46
					CARBON, EMERY, WAYNE, GRA	22	361 73

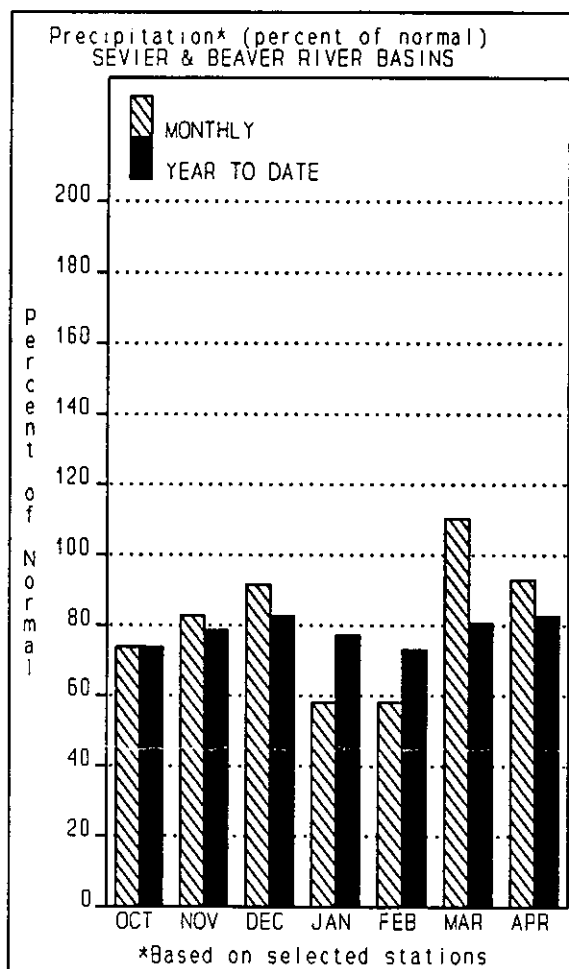
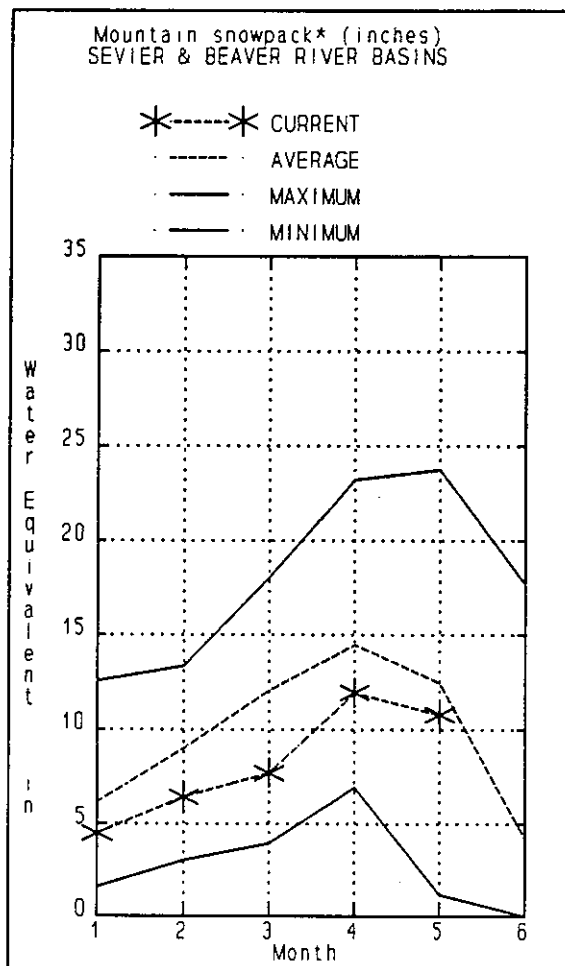
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The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

# SEVIER & BEAVER RIVER BASINS

MAY 1, 1991



The snowpack decreased less than normal during April due to low temperatures even though mountain precipitation was slightly below average for the month. May first snowpack is 87% of average over the entire basin. Mountain precipitation was 93% of normal for April which brings the total for the water year to 83%. End of April reservoir storage is below average at 86%. Storage ranges from 25% of capacity in Gunnison to 60% in Otter Creek. The total for all reservoirs is 13% less than last year. Forecasts of streamflow for this season range from 48% of average for the Sevier near Kingston to 71% for North Creek near Beaver (combined).

# SEVIER & BEAVER RIVER BASINS

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	FUTURE CONDITIONS						25 YR. (1000AF)
		DRIER		CHANCE OF EXCEEDING *		WETTER		
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SEVIER at Hatch	APR-JUL	15.0	25	32	62	39	49	52
SEVIER near Circleville	APR-JUL	11.0		30	68		43	44
SEVIER near Kingston	APR-JUL	1.7	5.9	16.4	48	27	43	34
ANTIMONY CREEK near Antimony	APR-JUL	3.5		5.8	65		8.1	8.9
E F SEVIER near Kingston	APR-JUL	0.7	7.4	14.0	58	21	30	24
SEVIER blw Piute Dam	APR-JUL	1.0	11.0	30	54	49	76	56
CLEAR CREEK near Sevier	APR-JUL	5.1		13.3	60		21	22
SIGURD to GUNNISON	APR-JUL	1.0	5.0	24	55	46	77	44
KINGSTON to VERMILLION DAM	APR-JUL	7.2		10.7	57		26	18.9
VERMILLION DAM to GUNNISON	APR-JUN	2.0		25	62		54	40
SALINA CREEK at Salina	APR-JUN	0.2		9.5	52		23	18.2
PLEASANT CREEK near Pleasant	APR-JUL	5.5		7.0	61		8.5	11.5
EPHRAIM CREEK near Ephraim	APR-JUL	9.2		12.8	51		16.5	25
SEVIER nr Gunnison	APR-JUL	15.0		60	61		161	99
CHICKEN CREEK near Levan	APR-JUL	0.7	1.5	2.1	60	2.7	3.5	3.5
OAK CREEK near Oak City	APR-JUL	0.1	0.6	1.1	69	1.6	2.3	1.6
CHALK CREEK near Fillmore	APR-JUL	6.2	8.9	10.7	65	12.5	15.2	16.4
BEAVER RIVER near Beaver	APR-JUL	6.0	13.1	18.0	67	23	30	27
NORTH CREEK near Beaver (combined)	APR-JUL	0.4	5.9	10.3	71	14.7	21	14.6
MINERSVILLE RESERVOIR inflow	APR-JUL	2.9	7.9	11.4	68	14.9	19.9	16.7

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNNISON	20.3	5.1	7.6	14.9	UPPER SEVIER RIVER (south	10	201	78
MINERSVILLE (RkyFd)	26.0	11.2	12.0	14.6	EAST FORK SEVIER RIVER	4	311	77
OTTER CREEK	52.7	31.7	31.1	39.5	SOUTH FORK SEVIER RIVER	6	168	78
PIUTE	71.8	32.7	48.0	44.7	LOWER SEVIER RIVER (inclu	12	171	89
SEVIER BRIDGE	236.0	135.2	169.4	136.0	BEAVER RIVER	2	155	100
PANQUITCH LAKE	22.3	7.3	9.3	---	SEVIER & BEAVER RIVER BAS	24	175	87

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

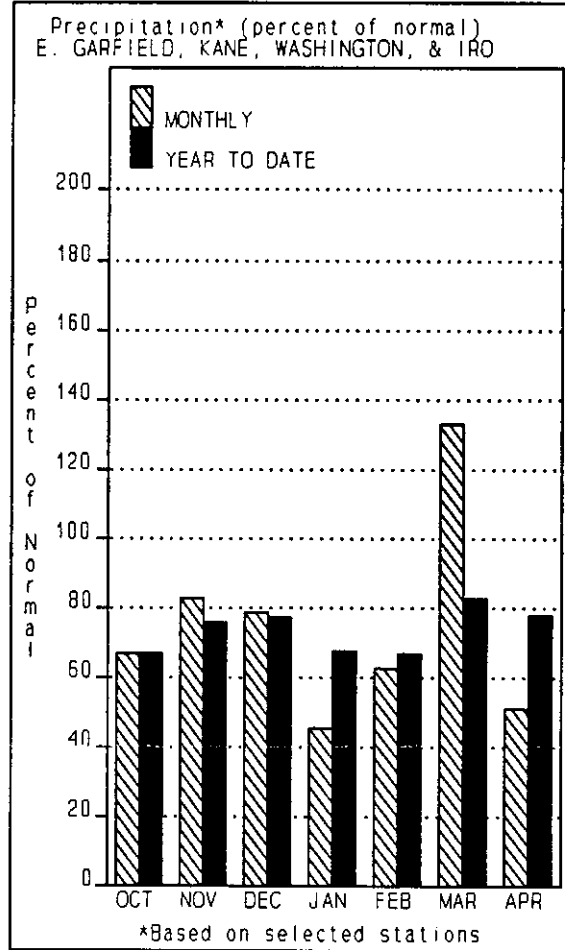
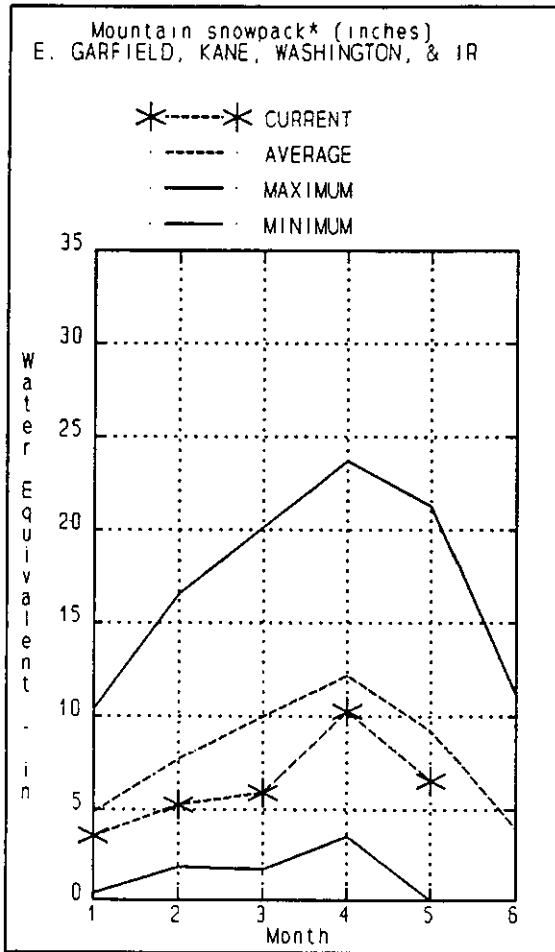
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# E. GARFIELD, KANE, WASHINGTON, & IRON Co

MAY 1, 1991



The snowpack in southwestern Utah lost almost one and one-half times normal snow water during April reversing the increase or below average decreases recorded in the rest of the State. May first water content is 70% of normal which is the lowest in the State. Also, unlike the northern Utah experience in April, mountain precipitation was a dismal 51% of normal which brings the water year accumulation down to 78% of average. Reservoir storage in local reservoirs is improved from last year even though it is still far below capacity. The Enterprise Reservoirs, for example, have more water this year than they have had at this time of year since 1988 even though they are still only 23% full.

# E. GARFIELD, KANE, WASHINGTON, & IRON Co.

## STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	<div> <div>&lt;----- DRIER -----</div> <div>FUTURE CONDITIONS</div> <div>----- WETTER -----</div> </div>						
		CHANCE OF EXCEEDING *						
		90% (1000AF)	70% (1000AF)	50% (MOST PROBABLE) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	25 YR. (1000AF)
COAL CK nr Cedar City	APR-JUL	6.4	9.6	11.8	59	14.0	17.2	20
LAKE POWELL Inflow	APR-JUL	2910	4030	4800	59	5570	6690	8086
VIRGIN R nr Hurricane	APR-JUN	16.0	28	41	60	54	74	68
SANTA CLARA R nr Pine Valley	APR-JUN	1.2	2.1	3.1	62	4.1	5.5	5.0

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
GUNLOCK	10.4	6.5	4.6	---	VIRGIN RIVER	5	204	83
LAKE POWELL	25002.0	14587.0	17725.0	---	PAROWAN	4	137	63
QUAIL CREEK	NO REPORT				ENTERPRISE TO NEW HARMONY	2	0	0
UPPER ENTERPRISE	10.0	2.1	0.6	---	COAL CREEK	3	198	81
LOWER ENTERPRISE	2.6	0.8	0.5	---	ESCALANTE RIVER	2	238	70
					E. GARFIELD, KANE, WASHIN	14	179	70

\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1985 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural flow - actual flow may be affected by upstream water management.



SNOW COURSE DATA  
FOR THE STATE OF UTAH  
As of MAY 1, 1990

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
ALTA CENTRAL	8800	04/29	118	39.5	23.6	40.3	DESERET PEAK SNOTEL	9250	5/01	-	20.85	8.9	26.9
ASHLEY TWIN LAKES	10500	4/30	80	21.6	12.3	18.0	DILL'S CAMP SNOTEL	9200	5/01	40	8.75	0.4	12.7
BEAVER DAMS	8000	04/29	22	5.2	0.0	8.0	DIRTY HEAD	5400					
BEAVER DAMS SNOTEL	8000	5/01	20	6.95	0.0	8.0	DONKEY RESERVOIR SNO	9800	5/01	12	4.25	0.5	5.5
BEEVER DIVIDE SNOTEL	8280	05/01	7	1.75	0.0	4.2	DRY BREAD POND	8350	04/24	36	13.6	.9	18.2
BEN LOMOND PK SNOTEL	8000	5/01	62	32.05	10.5	43.8	DRY BREAD POND SNOTL	8350	05/01	-	14.15	0.4	18.1
BEN LOMOND TR SNOTEL	6000	5/01	7	3.35	0.0	8.2	EAST SHINGLE LAKE	9800	04/30	92	31.3	27.3	28.9
BEVAN'S CABIN	6450	04/30	23	7.7	0.0	5.5	EAST WILLOW CREEK SN	8250	5/01	-	3.25	0.0	7.2
BIG FLAT SNOTEL	10290	5/01	72	18.35	13.0	21.3	FARMINGTON CANYON L.	6950	04/24	46	18.9	3.8	23.7
BIRCH CROSSING	8100	05/02	0	0.0	0.0	2.0	FARMINGTON CN SNOTEL	8000	5/01	62	32.85	12.2	31.5
BLACK FLAT-U.M. CK S	9400	5/01	26	6.45	0.3	9.1	FARNSWORTH LAKE	9600	04/29	69	22.2	15.5	22.9
BLACK'S FORK GS-EF	9340	5/01	30	9.7	2.9	9.9	FARNSWORTH LK SNOTEL	9600	5/01	-	22.05	16.5	22.2
BLACK'S FORK JUNCTN	8930	5/01	26	8.5	0.0	8.3	FISH LAKE	8700	04/28	12	3.3	0.0	5.9
BOX CREEK SNOTEL	9800	5/01	42	10.35	2.5	11.3	FIVE POINTS LAKE SNO	10920	05/01	56	15.75	17.0	17.2
BRIAN HEAD	10000	04/28	48	16.6	14.8	22.0	FRANCES FLATS	6700	04/30	36	10.4	0.0	0.7
BRIGHTON CABIN	8700	05/02	62	22.1	12.9	25.5	G.B.R.C. HEADQUARTER	8700	04/30	54	15.9	13.6	17.6
BRIGHTON SNOTEL	8750	5/01	67	26.65	16.0	31.2	G.B.R.C. MEADOWS	10000	04/30	74	24.3	19.0	27.2
BROWN DUCK SNOTEL	10600	5/01	-	15.95	16.8	19.8	GARDEN CITY SUMMIT	7600	04/24	28	8.5	2.1	17.2
BRYCE CANYON	8000	05/01	0	0.0	0.0	0.6	GEORGE CREEK	8840					
BUCK FLAT SNOTEL	9800	5/01	50	13.85	7.3	16.9	GOOSEBERRY R.S.	8400	04/29	33	10.7	3.6	10.0
BUCK PASTURE	9700	4/30	63	20.8	11.9	17.2	GOOSEBERRY R.S. SNOT	7900	05/01	-	2.35	0.0	5.9
BUCKBOARD FLAT	9000	04/29	17	5.2	0.3	8.3	HARDSCRABBLE	6700	04/24	18	7.3	0.0	11.1
BUG LAKE SNOTEL	7950	5/01	41	14.55	6.2	22.9	HARRIS FLAT	7700	04/28	0	0.0	0.0	2.9
BURT'S-MILLER RANCH	7900	5/01	3	0.9	0.0	2.4	HARRIS FLAT SNOTEL	7700	05/01	-	0.05	0.0	2.1
CAMP JACKSON	8600	04/29	12	4.0	1.0	7.5	HAYDEN FORK	9400	5/01	40	12.6	7.3	16.1
CAMP JACKSON SNOTEL	8600	05/01	-	1.95	0.0	8.5	HAYDEN FORK SNOTEL	9100	5/01	-	11.15	8.0	13.7
CASTLE VALLEY	9580	04/26	22	6.5	0.0	8.5	HENRY'S FORK	10000	4/30	57	16.0	11.1	13.4
CASTLE VALLEY SNOTL	9580	05/01	-	9.15	0.3	11.3	HEWINTA SNOTEL	9500	05/01	33	12.15	3.9	10.2
CHALK CK #1 SNOTEL	9100	05/01	70	26.95	13.7	23.5	HICKERSON PARK SNOTE	9100	05/01	24	7.85	1.7	6.5
CHALK CK #2 SNOTEL	8200	05/01	42	14.25	3.5	11.7	HIDDEN SPRINGS	5500	04/30	4	1.1	0.0	0.4
CHALK CREEK #3	7500	5/01	4	1.2	0.0	3.1	HOBBLE CREEK SUMMIT	7420	04/30	14	4.2	0.0	8.3
CHEPETA SNOTEL	10300	5/01	-	14.95	12.6	12.5	HOLE-IN-ROCK SNOTEL	9150	05/01	21	8.05	1.3	6.0
CITY CREEK	7500	4/30	92	31.3	0.0	23.2	HORSE RIDGE SNOTEL	8260	5/01	34	19.05	0.4	18.8
CLEAR CK RIDG #1 SNT	9200	5/01	51	17.75	12.4	16.9	HUNTINGTON-HORSESHOE	9800	04/30	73	24.2	15.4	27.4
CLEAR CK RIDG #2 SNT	8000	5/01	36	13.55	3.1	8.7	INDIAN CANYON SNOTEL	9100	5/01	24	7.35	3.4	11.2
CLEAR CREEK MEADOWS	9420				-	20.6	JOHNSON VALLEY	8850	04/29	17	4.3	0.0	4.6
CLEAR CREEK RIDGE #3	6600	04/30	0	0.0	0.0	0.1	KILFOIL CREEK	7300	04/24	24	7.7	1.8	10.7
COLD WATER SPRINGS	6030	04/22	0	0.0	-	-	KILLION CANYON	6300	05/02	7	2.1	0.0	0.0
CORRAL	8200				-	-	KIMBERLY MINE SNOTEL	9300	5/01	49	14.15	10.4	14.8
CURRENT CREEK SNOTEL	8000	05/01	0	0.05	0.0	3.3	KING'S CABIN SNOTEL	8730	05/01	28	8.05	1.9	9.8
DANIELS-STRAWBERRY S	8000	5/01	23	7.75	0.0	11.2	KLONDIKE NARROWS	7400	04/24	21	7.9	0.0	15.8
DESERET PEAK	9250	05/01	-	20.3E	7.9	26.9	KOLOB SNOTEL	9250	5/01	-	18.75	8.7	21.4
DESERET PEAK AM	9250	04/30	49	17.2	9.8	-	LAKEFORK #1 SNOTEL	10100	05/01	39	12.15	11.7	11.1

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
LAKEFORK BASIN SNOTE	10900	05/01	61	17.2S	18.9	17.5	REDDEN MINE LOWER	8500	5/01	48	15.0	5.6	17.9
LAKEFORK MOUNTAIN #3	8400	5/01	6	1.6	0.0	2.0	REES'S FLAT	7300	04/28	25	6.8	0.0	11.0
LAMBS CANYON	7400	04/29	46	10.6	0.3	11.0	ROCK CREEK SNOTE	7900	5/01	-	1.5S	0.0	0.2
LASAL MOUNTAIN LOWER	8800	04/25	9	3.0	0.6	5.3	ROCKY BASIN-SETTLEMENT	8900	04/30	81	29.6	19.3	30.0
LASAL MOUNTAIN SNOTE	9850	5/01	23	7.2S	0.0	13.4	ROCKY BN-SETTLEMENT SN	8900	5/01	-	21.1S	11.8	24.8
LILY LAKE SNOTE	9050	05/01	38	10.9S	5.3	10.7	SEELEY CREEK SNOTE	10000	5/01	41	13.0S	7.2	17.0
LITTLE BEAR LOWER	6000	04/24	0	0.0E	0.0	1.9	SHINGLE MILL	6200	04/30	6	1.6	0.0	3.3
LITTLE BEAR SNOTE	6550	05/01	0	0.0S	0.0	4.3	SILVER LAKE(BRIGHT.)	8730	05/01	61	28.6	17.0	28.2
LITTLE GRASSY CREEK	6100	04/28	0	0.0	0.0	0.1	SMITH MOREHOUSE SNTL	7600	05/01	29	9.3S	2.1	7.7
LITTLE GRASSY SNOTE	6100	05/01	-	0.0S	0.0	0.1	SNOWBIRD GAD VALLEY	9700					
LONG FLAT SNOTE	8000	05/01	0	0.0S	0.0	2.6	SNOWBIRD SNOTE	9700	5/01	-	38.9S	31.0	40.1
LONG VALLEY JCT.	7500	04/28	0	0.0	0.0	0.0	SPIRIT LAKE	10300	5/01	47	14.0	12.0	15.9
LONG VALLEY JCT. SNT	7500	05/01	-	0.0S	0.0	0.0	SQUAW SPRINGS	9300	04/29	18	3.8	0.0	4.9
LOOKOUT PEAK SNOTE	8200	5/01	51	23.7S	4.9	26.5	STEEL CREEK PARK SNO	10100	05/01	63	16.0S	12.7	17.7
LOST CREEK RESERVOIR	6130	04/24	0	0.0	0.0	0.0	STILLWATER CAMP	8550	5/01	26	7.6	0.6	8.4
MAMMOTH-COTTONWOOD SNT	8800	5/01	-	21.4S	7.8	17.5	STRAWBERRY DIVIDE SN	8400	5/01	32	10.5S	1.9	17.2
MAMMOTH-COTTONWOOD	8800	04/30	61	20.8	9.1	20.9	STUART R.S.	7950	4/30	4	1.0	0.0	2.3
MERCHANT VALLEY SNOT	8750	5/01	32	10.6S	5.7	7.6	SUSC RANCH	8200	05/02	0	0.0	0.0	2.7
MIDDLE CANYON	7000	04/30	35	12.0	0.0	10.0	TALL POLES	8800	5/02	22	7.6	4.5	12.7
MIDWAY VALLEY	9800	04/28	56	19.5	13.4	24.1	THAYNES CANYON SNOTE	9200	5/01	-	20.5S	12.1	23.7
MIDWAY VALLEY SNOTE	9800	5/01	-	20.5S	15.2	21.6	THISTLE FLAT	8500					
MILL CREEK	6950	05/01	67	20.0	5.7	20.6	TIMBERLINE	9100					
MILL-D NORTH SNOTE	8960	5/01	77	24.2S	7.1	25.3	TIMPANOGOS DIVIDE SN	8140	5/01	38	12.1S	8.1	19.9
MILL-D SOUTH FORK	7400	05/01	42	13.6	0.3	15.4	TONY GROVE LK SNOTE	8400	5/01	64	28.3S	11.9	33.7
MINING FORK SNOTE	8000	5/01	52	16.2S	0.0	22.6	TONY GROVE R.S.	6250	04/24	1	0.4	0.0	3.8
MONTE CRISTO R.S.	8960	04/24	54	20.6	5.1	26.5	TRIAL LAKE	9960	05/01	64	20.7	17.3	26.6
MONTE CRISTO SNOTE	8960	05/01	-	29.7S	11.7	29.1	TRIAL LAKE SNOTE	9960	5/01	-	20.9S	15.5	24.8
MOSBY MTN. SNOTE	9500	05/01	50	17.4S	9.9	13.0	TROUT CREEK SNOTE	9400	5/01	-	11.4S	3.9	9.2
MT. BALDY R.S.	9500	04/30	73	22.6	17.9	26.2	UPPER JOES VALLEY	8900	04/30	24	6.3	0.0	6.6
MUD CREEK #2	8600	04/30	30	8.9	3.1	8.9	UPPER MILL CREEK	8300					
OAK CREEK	7760	04/28	34	8.8	4.5	9.5	VERNON CREEK SNOTE	7500	5/01	-	4.5S	0.0	7.9
ONE MILE SUMMIT	7330				-	0.0	VIPONT	7670					
OTTER LAKE	9600				-	14.5	WEBSTER FLAT SNOTE	9200	5/01	13	7.8S	0.4	6.7
PANQUITCH LAKE	8200	04/28	0	0.0	0.0	1.3	WHITE RIVER #1 SNOTE	8550	5/01	28	8.8S	1.0	10.2
PARLEY'S CANYON SNOT	7500	05/01	-	11.2S	0.0	11.2	WHITE RIVER #3	7400	04/30	0	0.0	0.0	0.8
PARLEY'S CANYON SUM.	7500	04/29	64	16.4	0.7	14.2	WIDTSOE #3 SNOTE	9500	5/01	25	7.7S	4.5	11.4
PAYSON R.S.	8050	04/28	52	15.8	0.9	16.3	WRIGLEY CREEK	9000	04/30	25	6.6	0.9	9.0
PAYSON R.S. SNOTE	8050	5/01	-	16.5S	3.1	16.7	YANKEE RESERVOIR	8700	04/28	14	3.3	0.8	7.3
PICKLE KEG SNOTE	9600	5/01	-	17.3S	5.4	16.6	NOTE:						
PICKLE KEG SPRING	9600	05/01	-	15.3E	3.6	15.8	The S flag following Water Content for SNOTE sites indicates telemetered						
PINE CREEK	8800	04/28	47	13.2	11.3	15.5	data, the Depth reading preceeding S flagged data was measured around the						
PINE CREEK SNOTE	8800	5/01	-	21.8S	15.6	15.5	snow pillows at the time of the ground survey and may not be the same date as						
RED PINE RIDGE SNOTE	9200	5/01	48	18.1S	4.8	15.6	the telemetered value.						